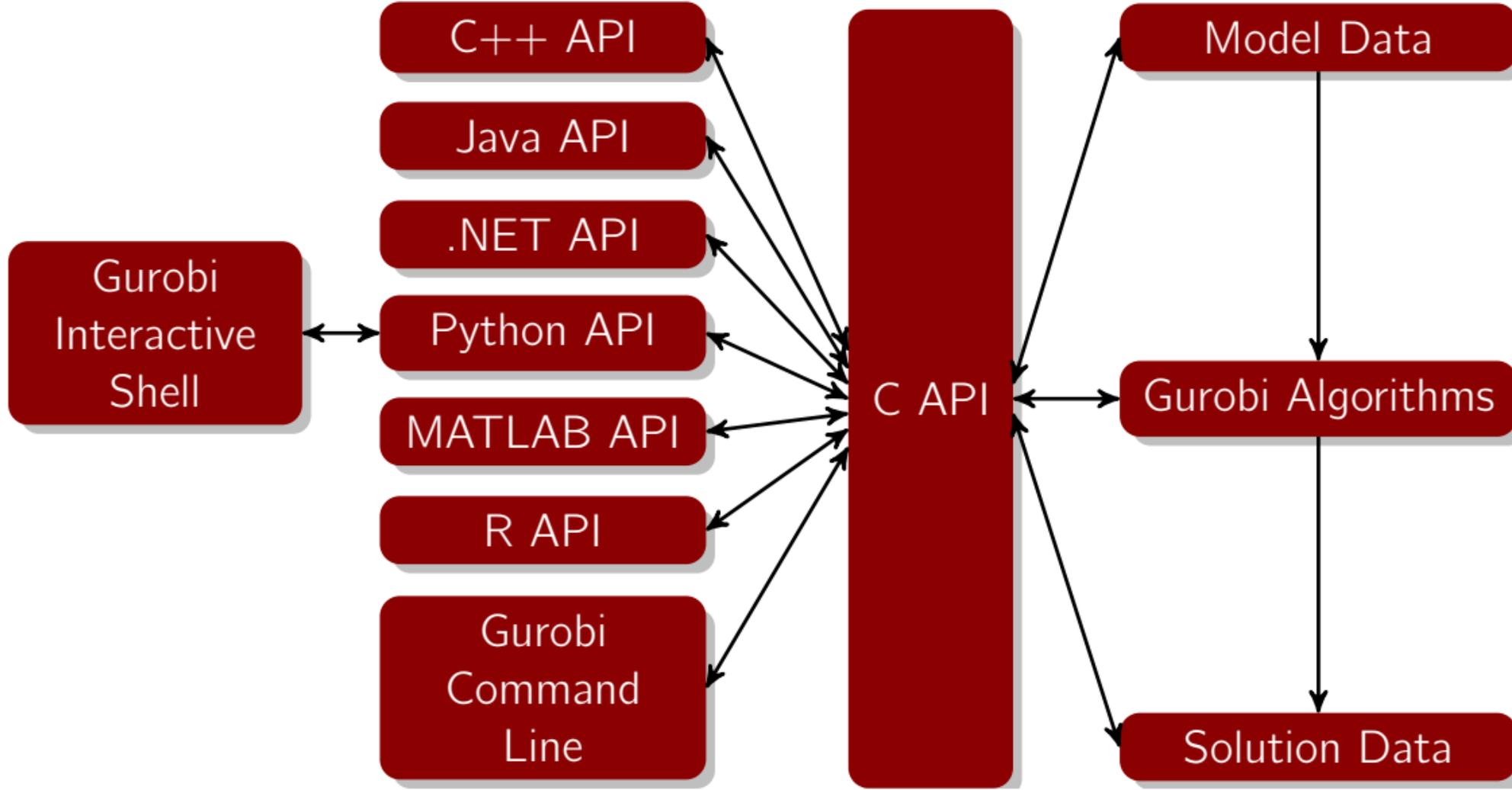


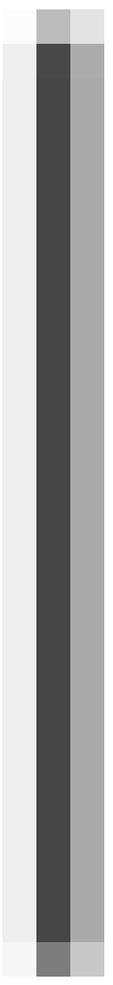
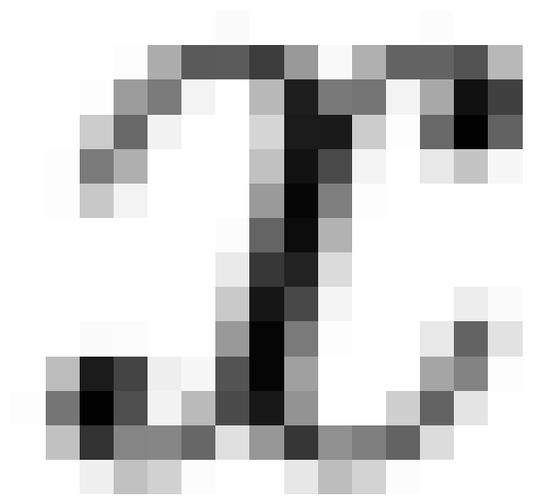
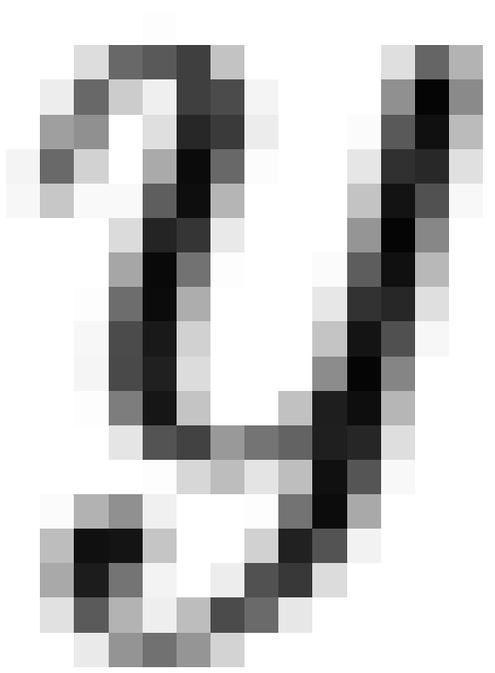
GUROBI

OPTIMIZATION



www.pearsoned.com

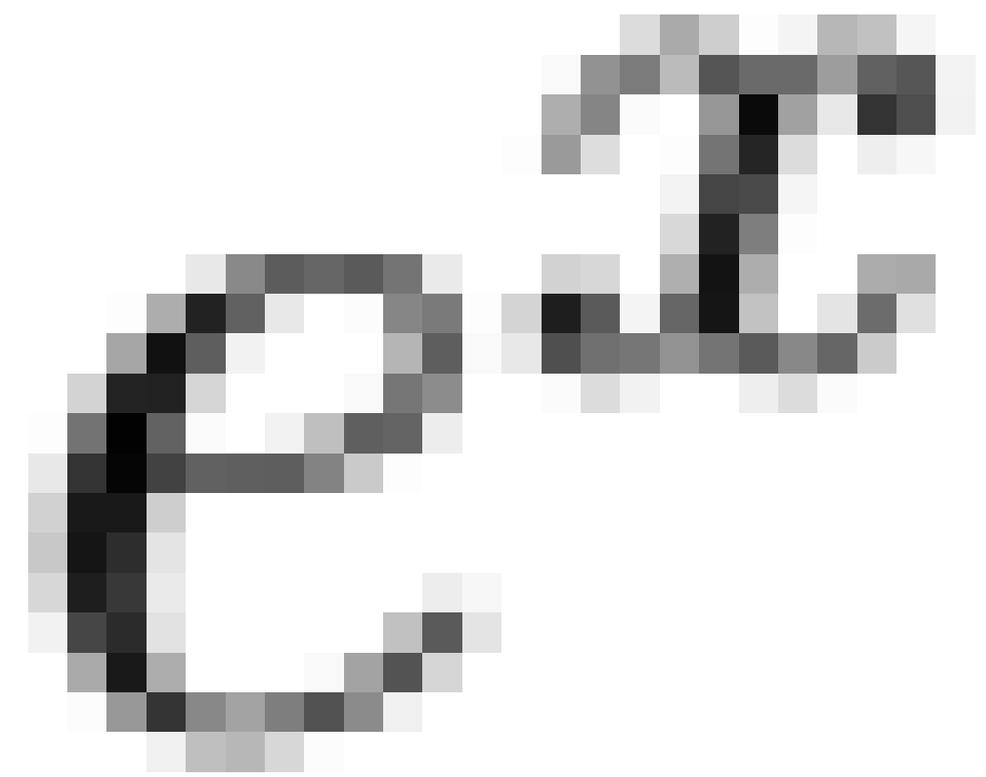
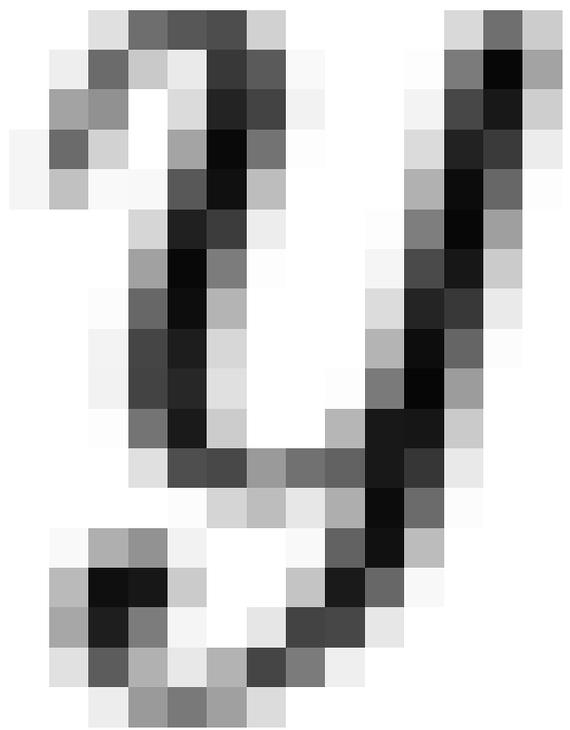
1999-2000

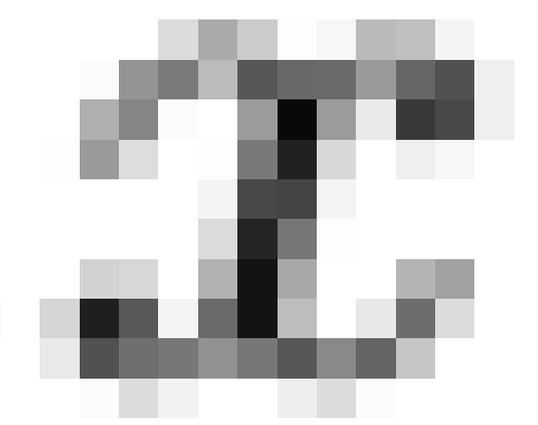
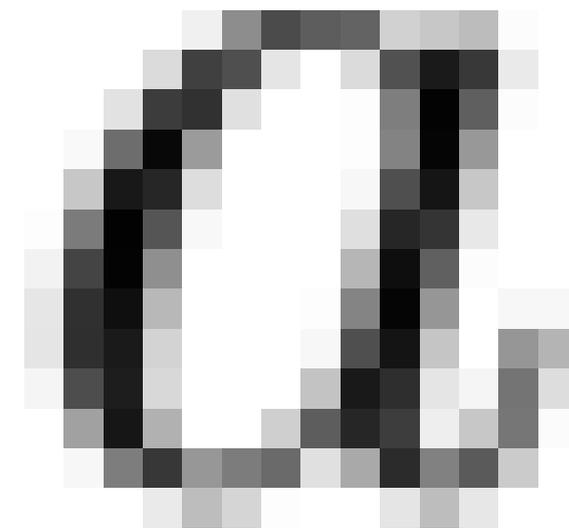
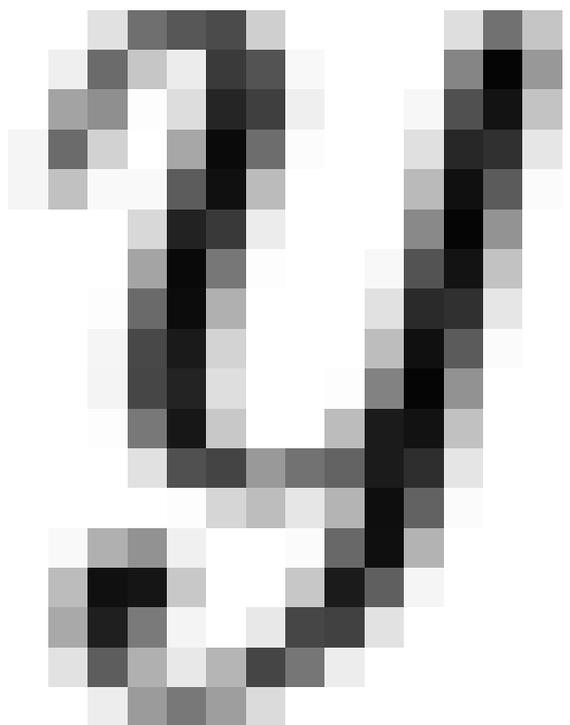


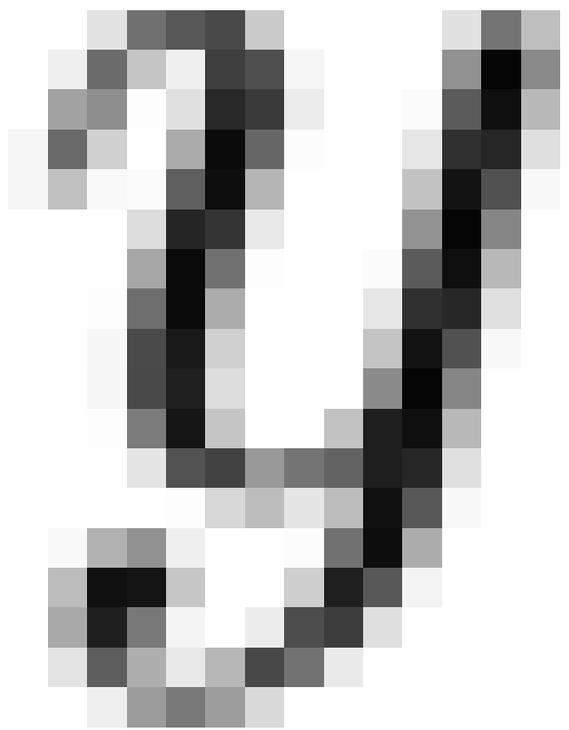
1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8

www.love.com

$v = \frac{d}{dt} \left(\frac{1}{2} m v^2 - \frac{1}{2} k x^2 \right)$

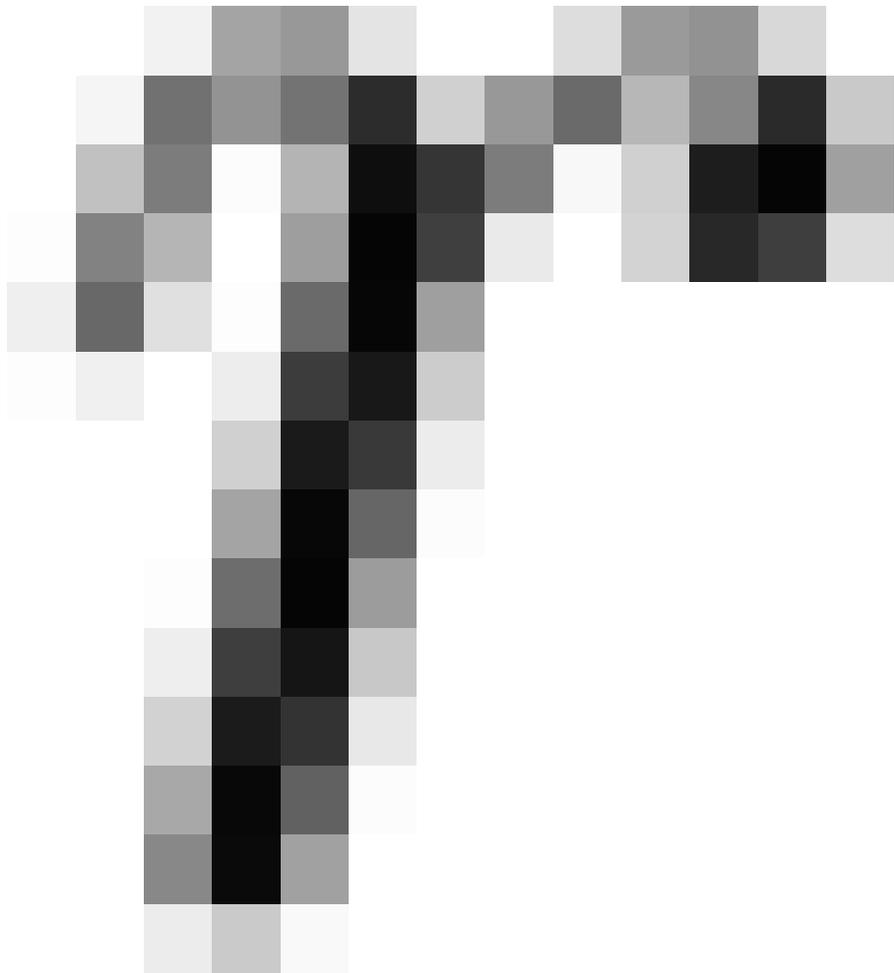


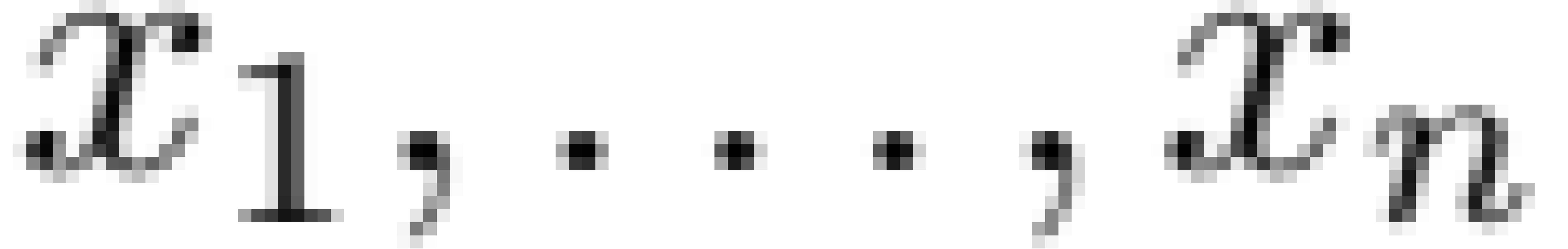


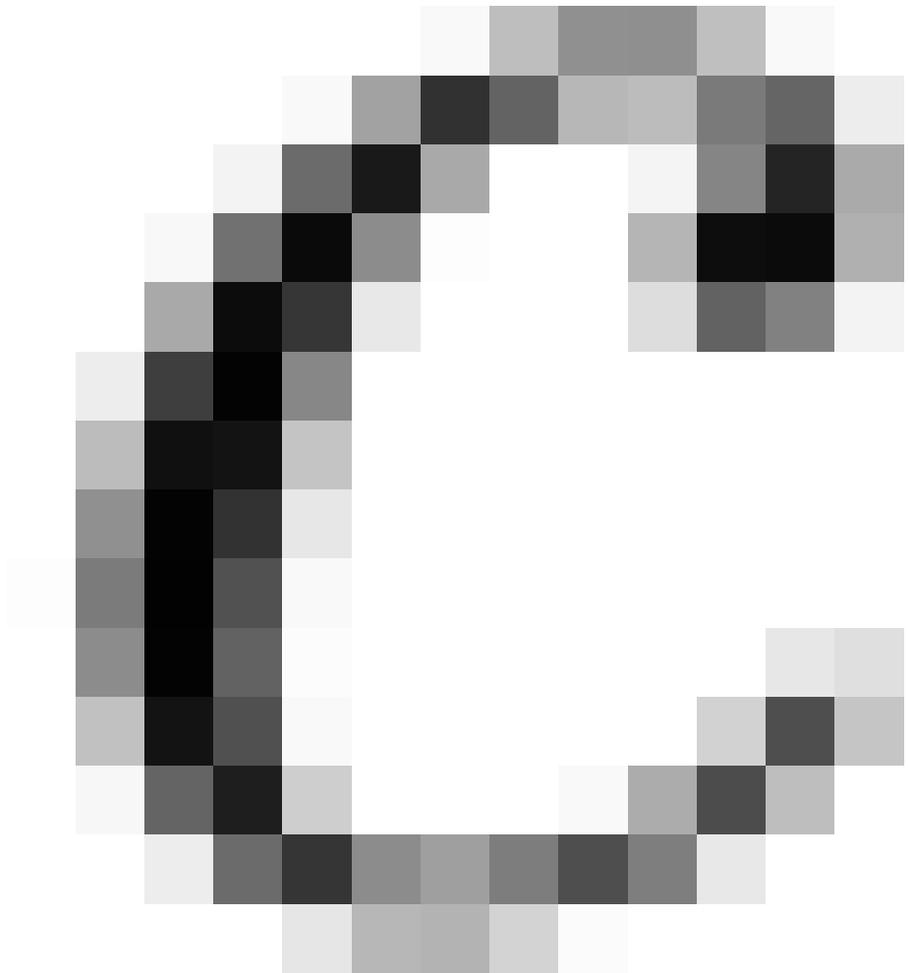


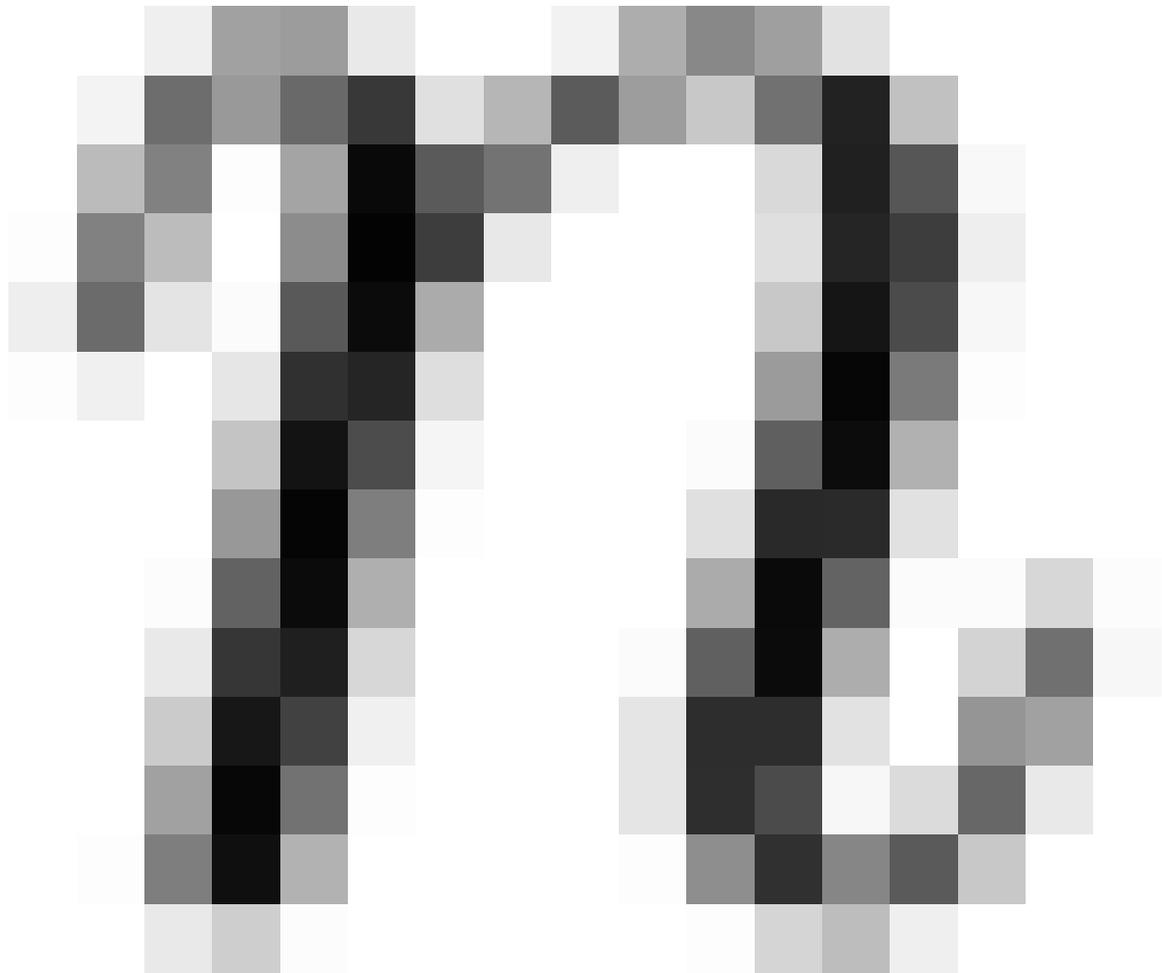


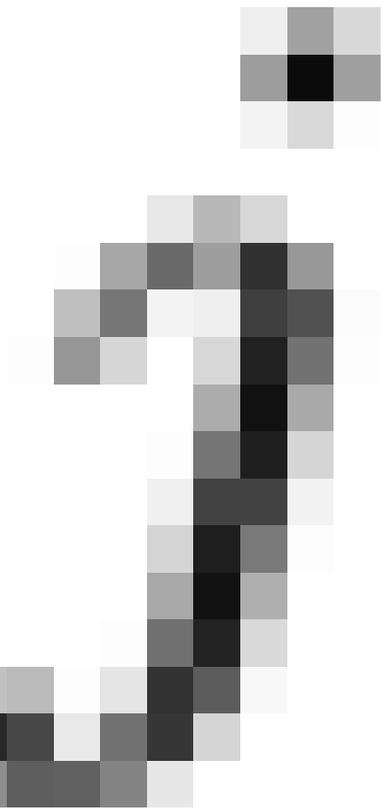
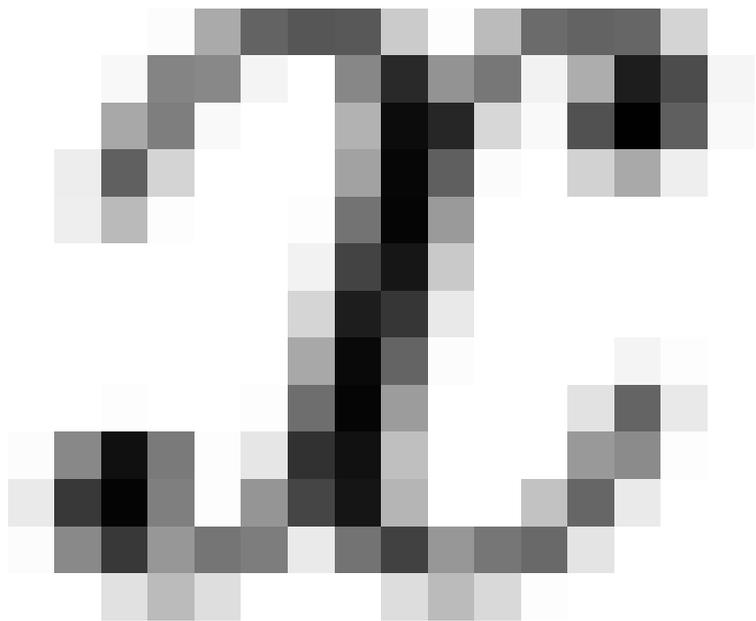
THE UNIVERSITY OF CHICAGO PRESS



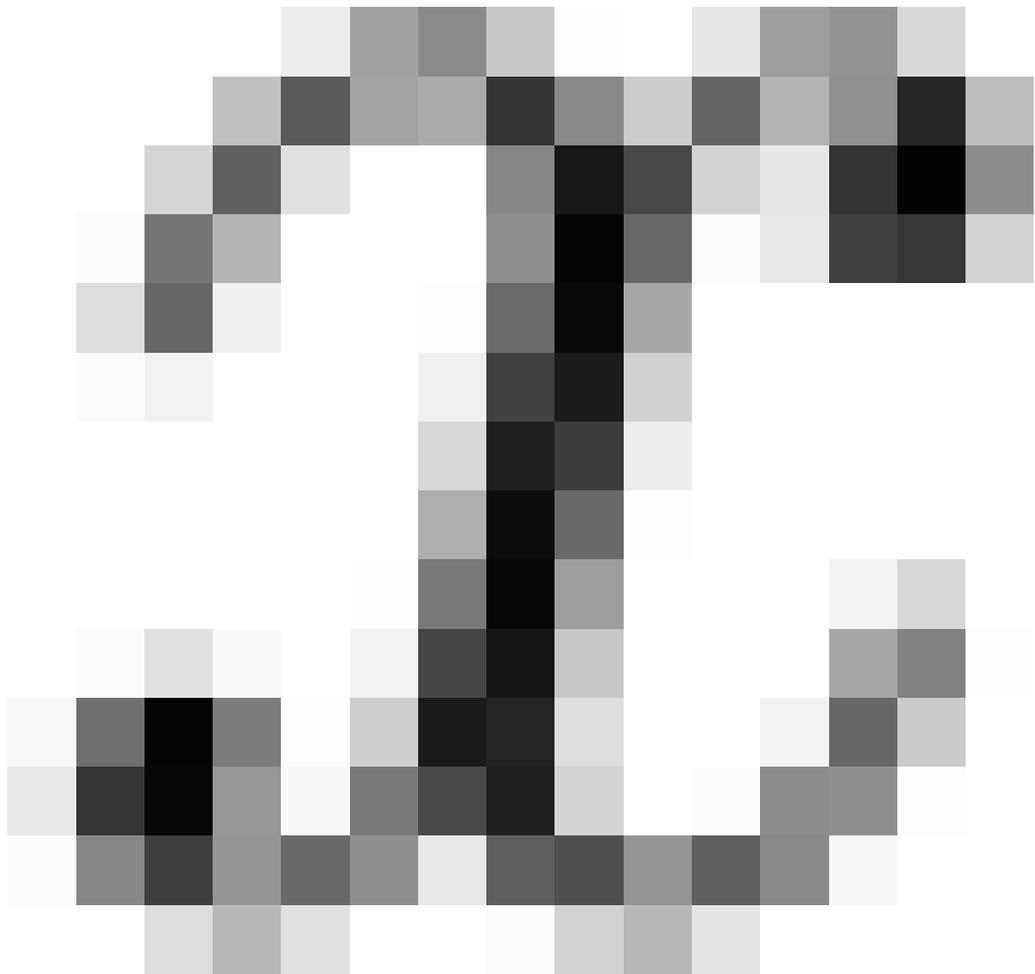




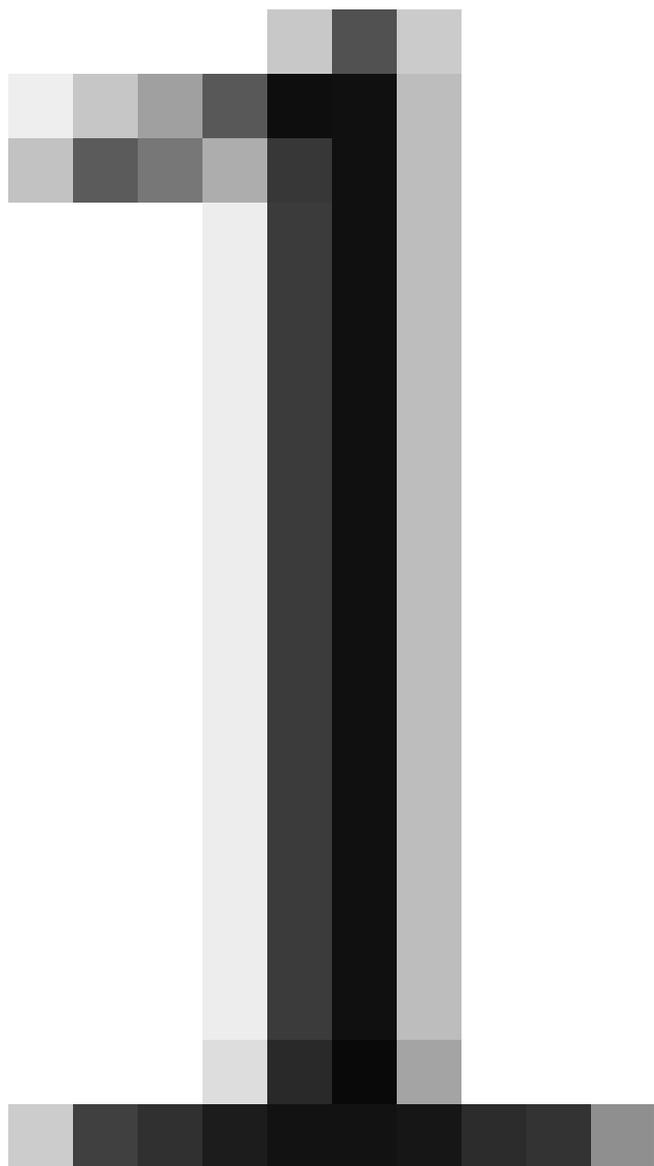


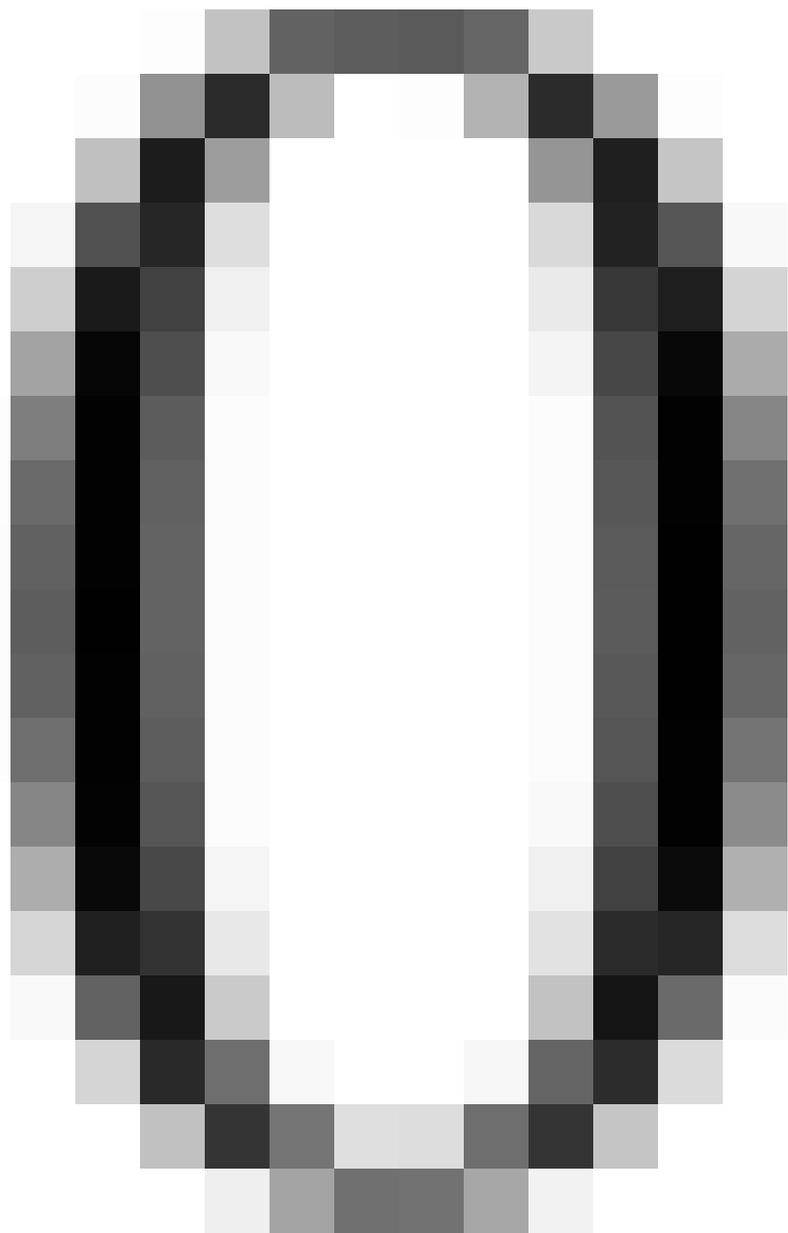


1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The second part of the document outlines the procedures for reconciling the bank statements with the company's records. This process involves comparing the bank's records with the company's books to identify any discrepancies and investigate their causes. The third part of the document describes the methods for calculating the cost of goods sold and determining the gross profit. This is a critical step in assessing the company's operational performance and profitability. The fourth part of the document details the process of preparing the income statement and the balance sheet. These financial statements provide a comprehensive overview of the company's financial position and performance over a specific period. The final part of the document discusses the importance of reviewing and approving the financial statements before they are presented to the board of directors and other stakeholders. This ensures that the information is accurate and reliable, and that it is used to make informed decisions about the company's future operations.

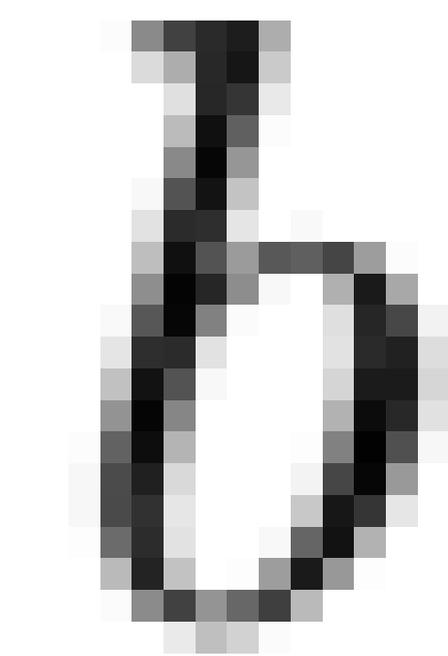
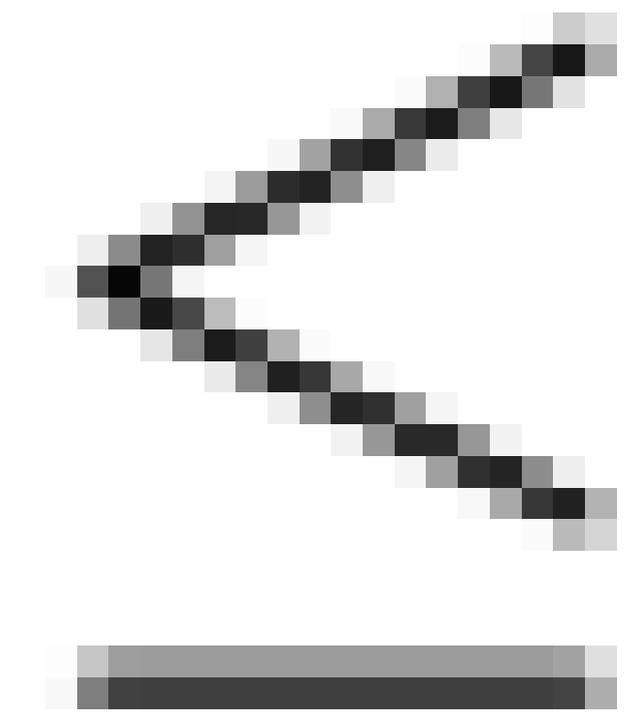
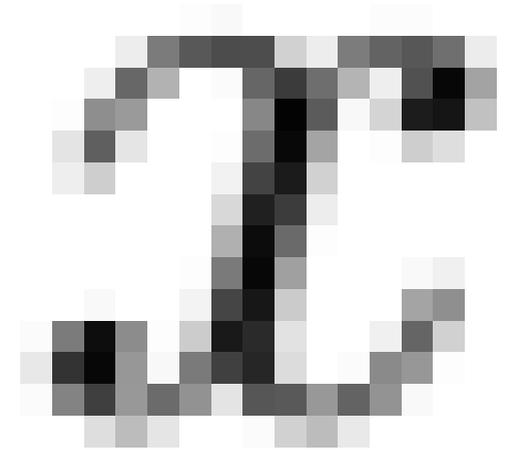
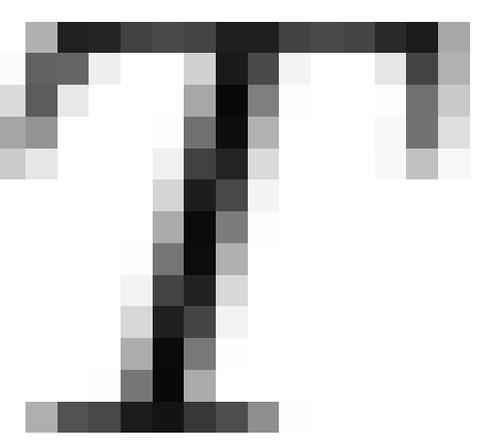
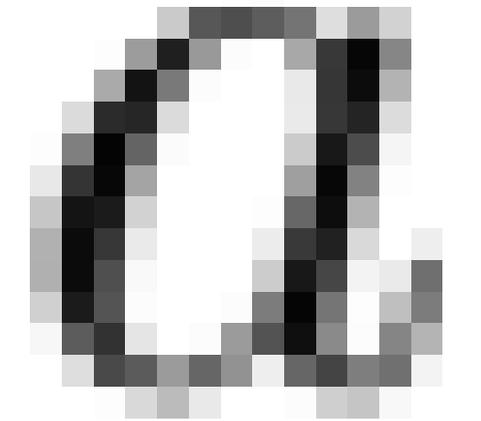
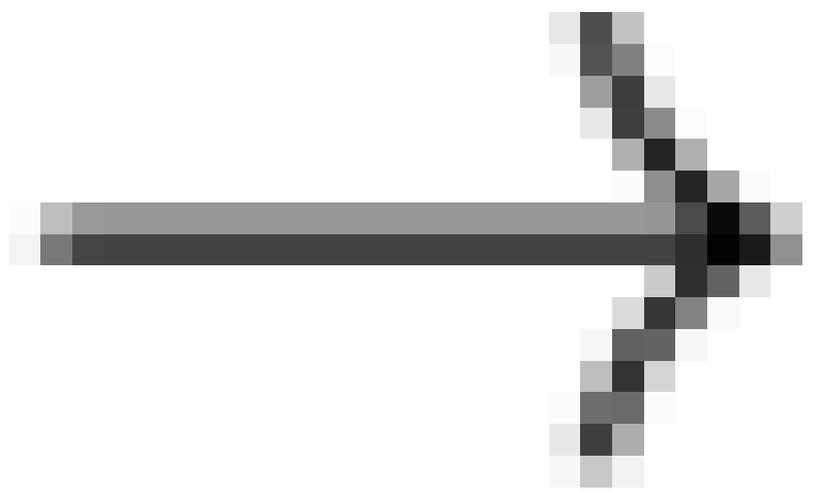
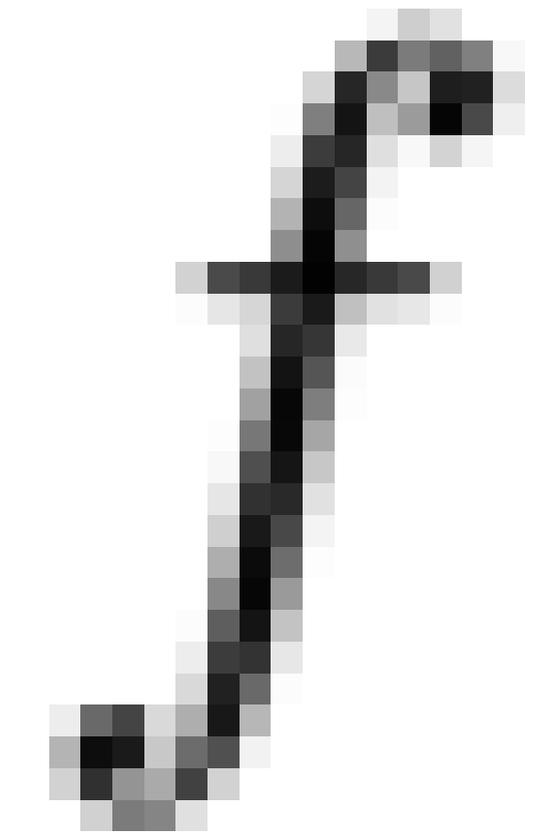
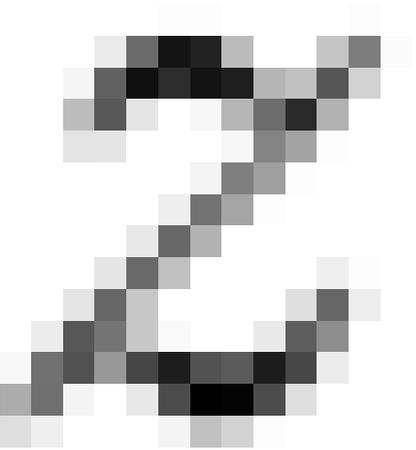


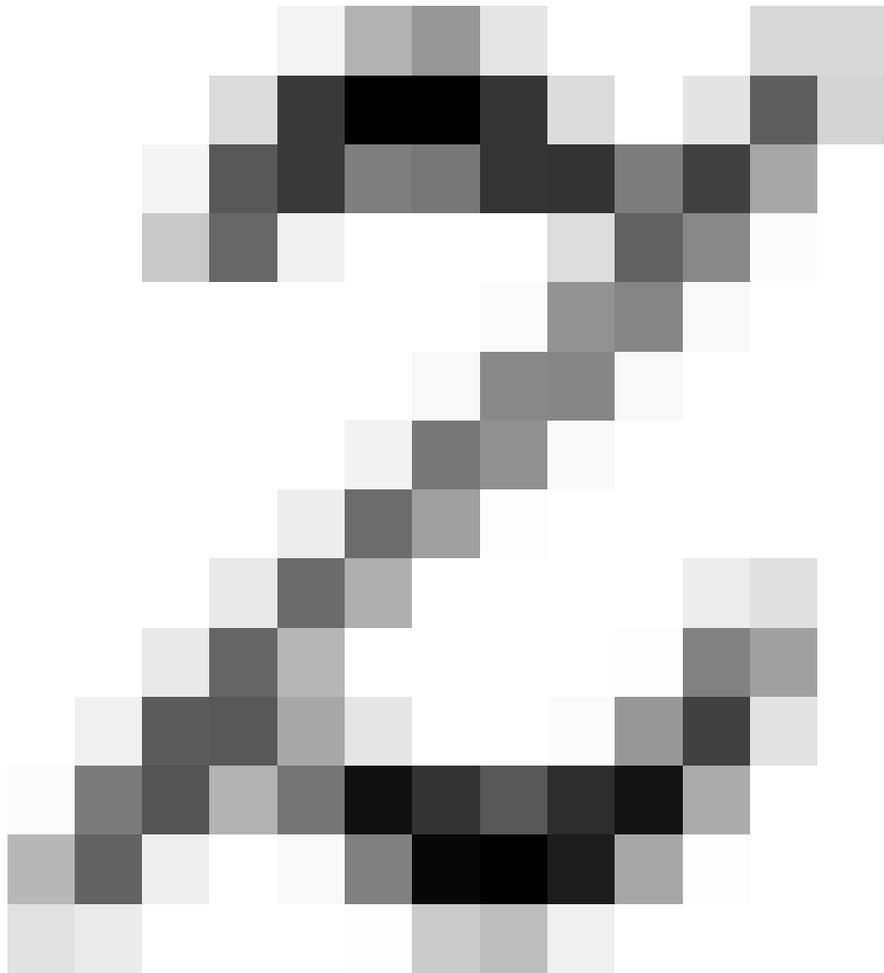
1 = 2019-10-19



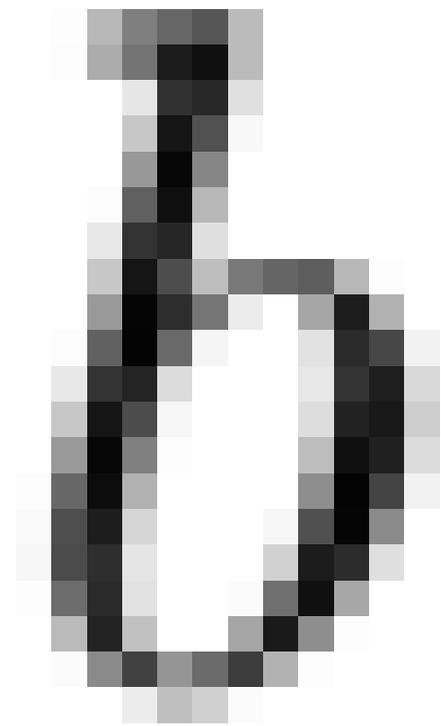
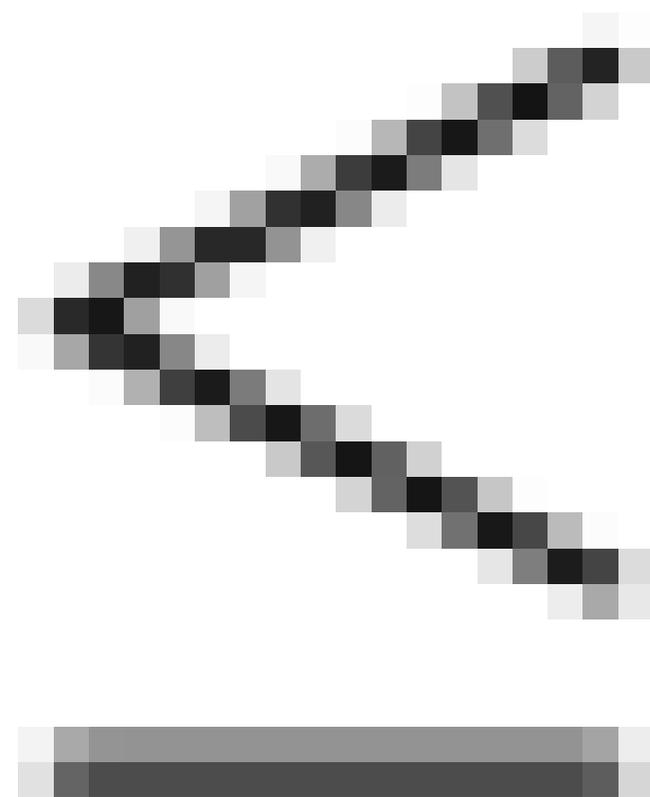
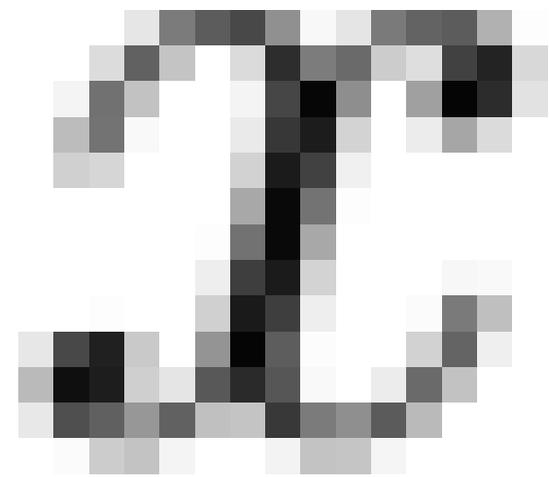
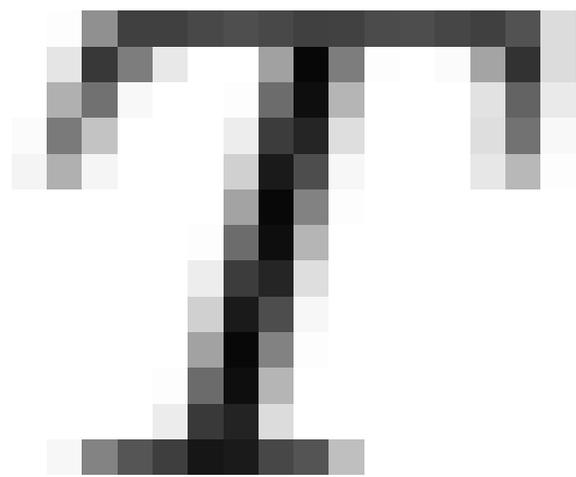
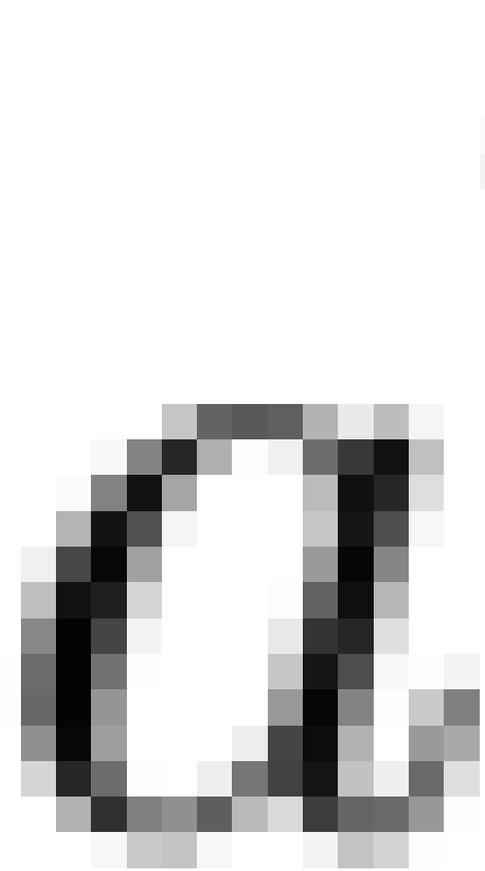


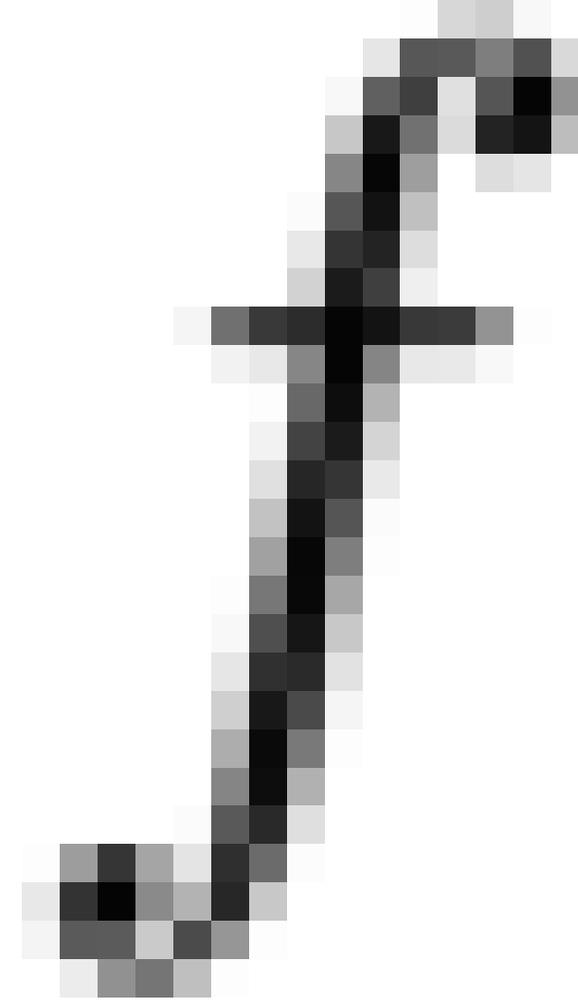
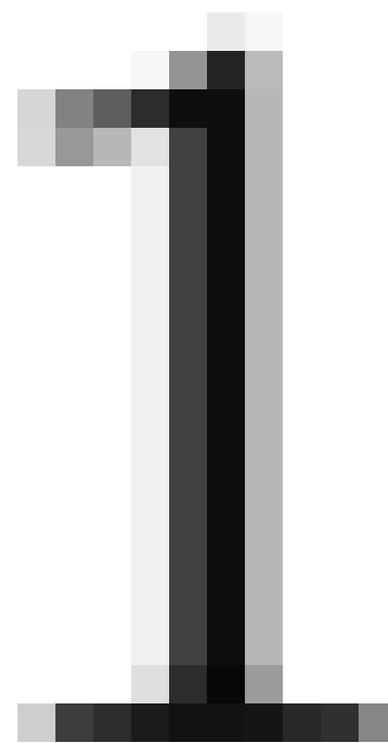
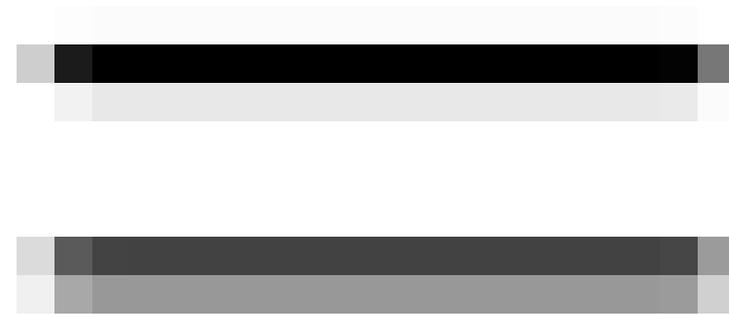
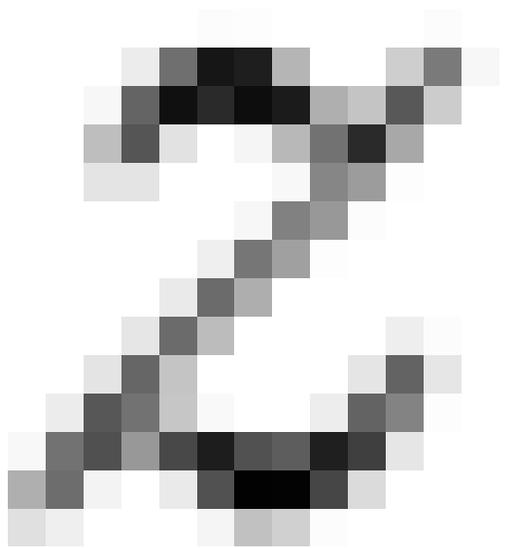
1 = 01101101
2 = 00000010
3 = 00000011
4 = 00000100
5 = 00000101
6 = 00000110
7 = 00000111
8 = 00001000
9 = 00001001
A = 00001010
B = 00001011
C = 00001100
D = 00001101
E = 00001110
F = 00001111



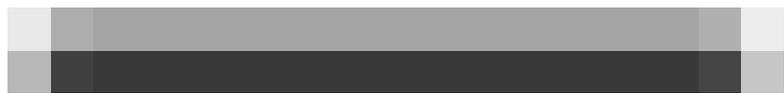
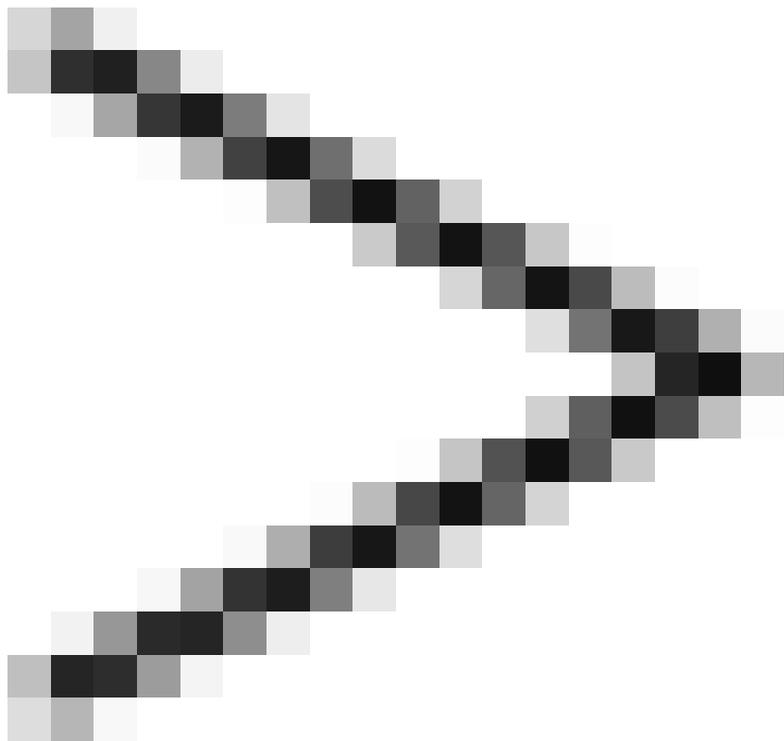


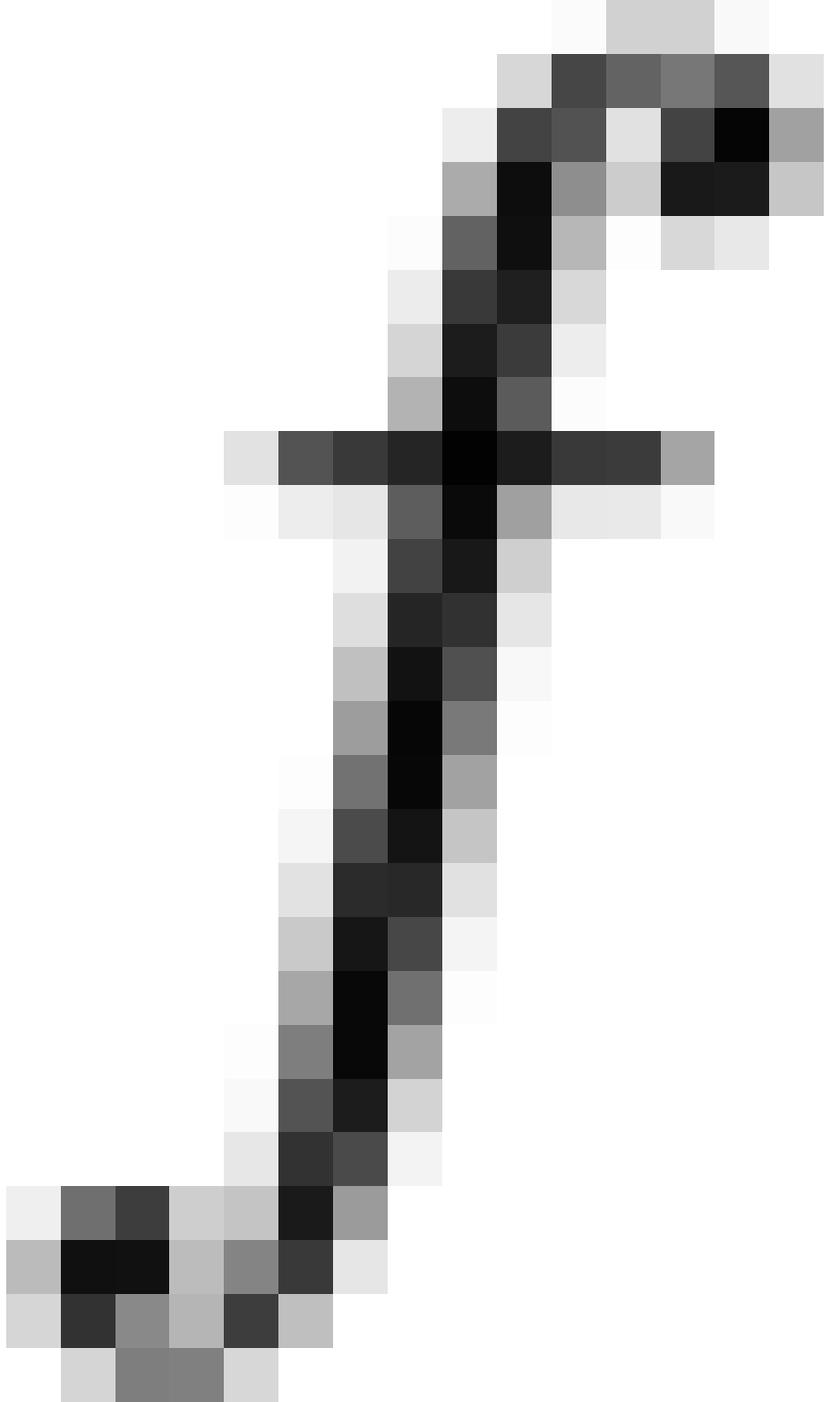
1011

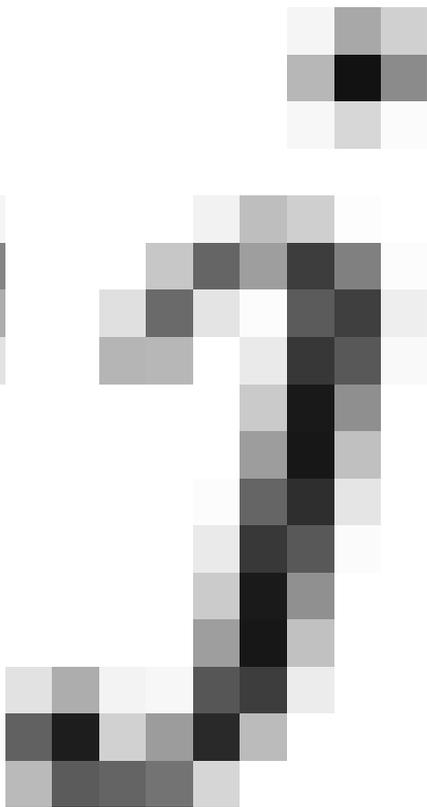
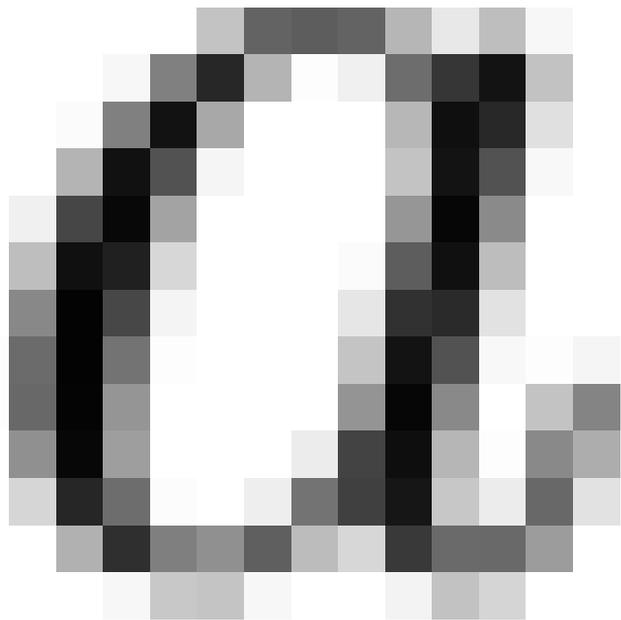


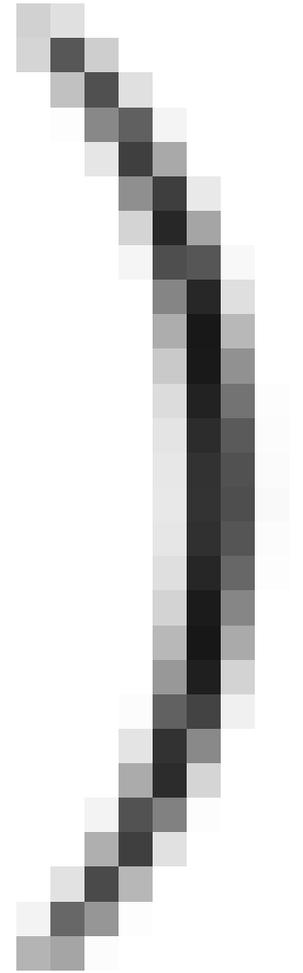
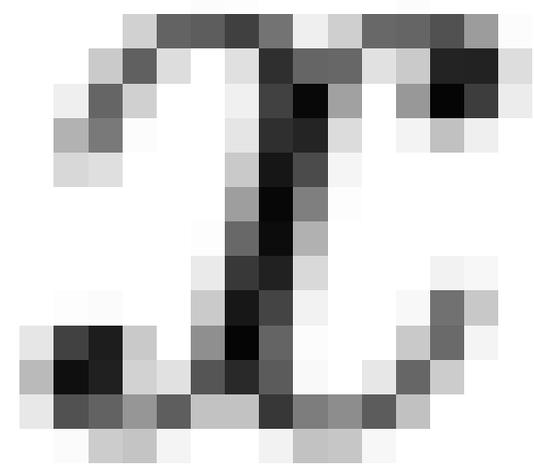
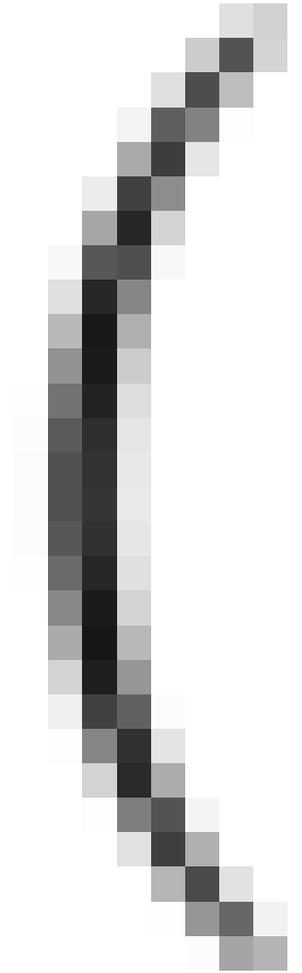
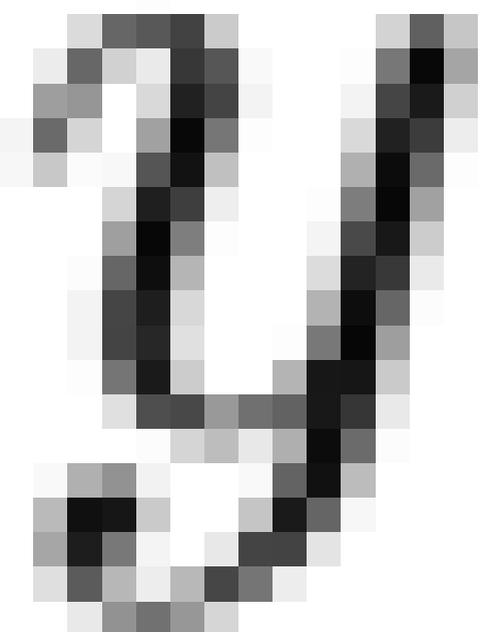


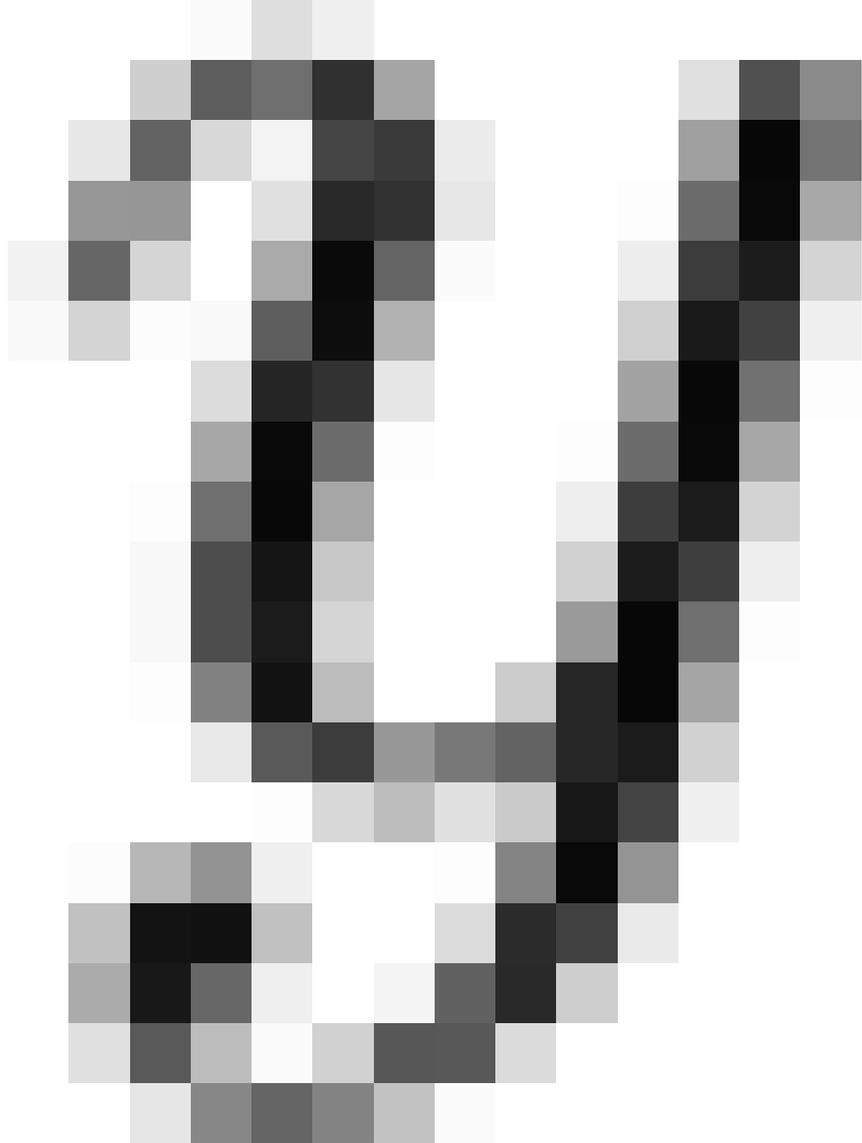




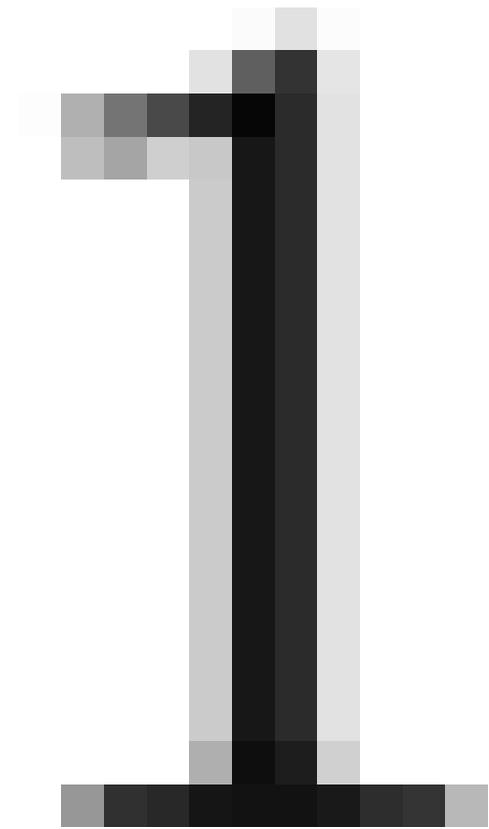
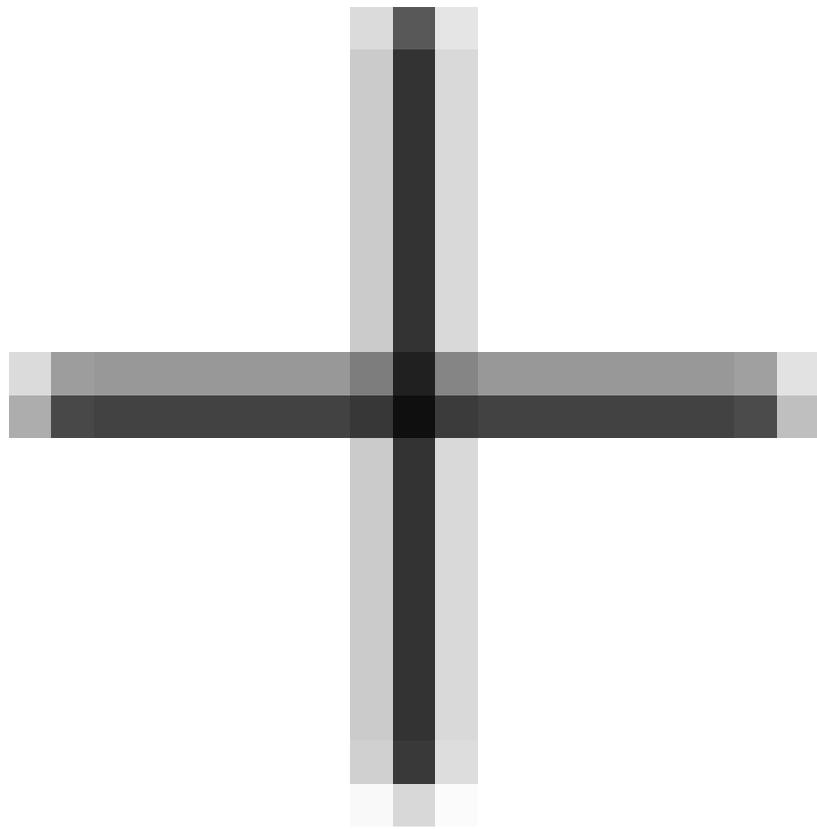
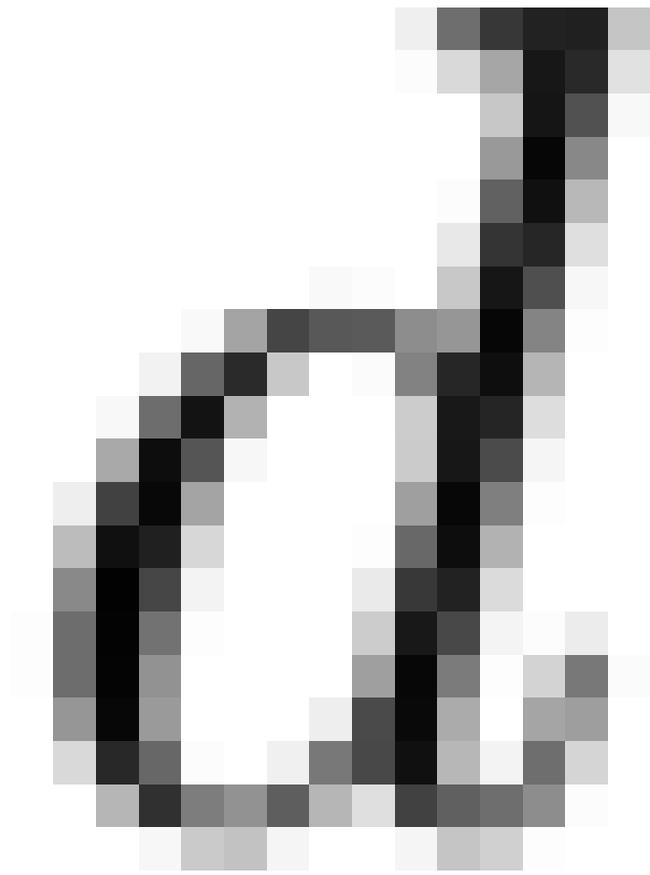




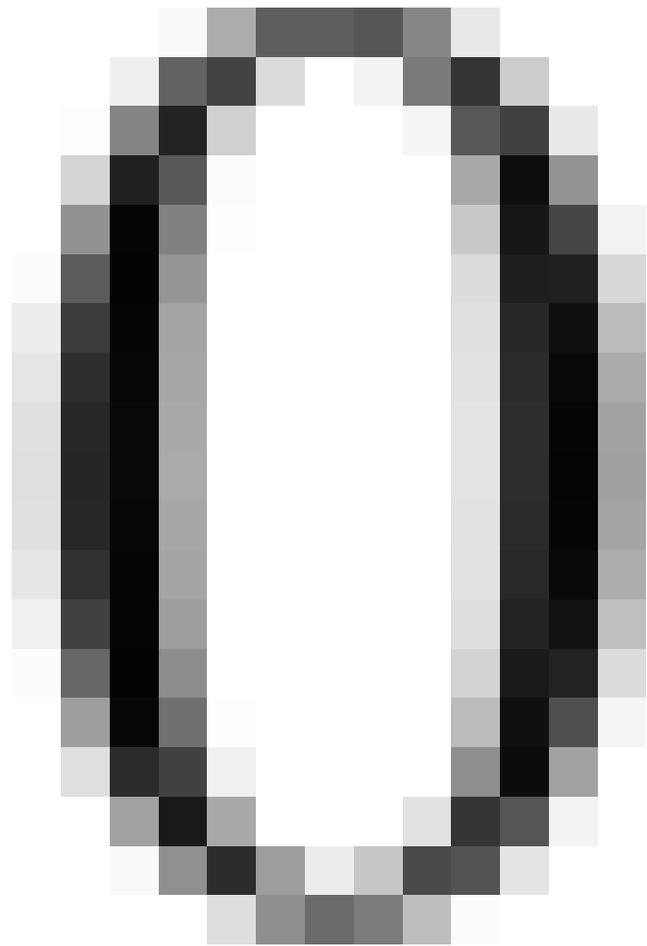
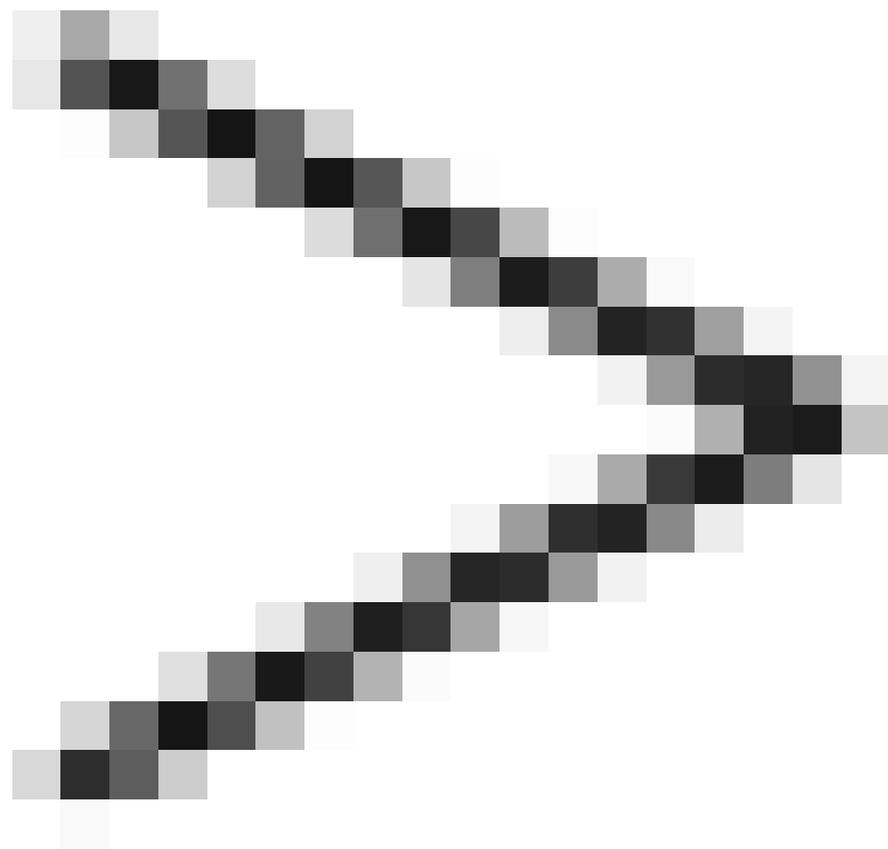
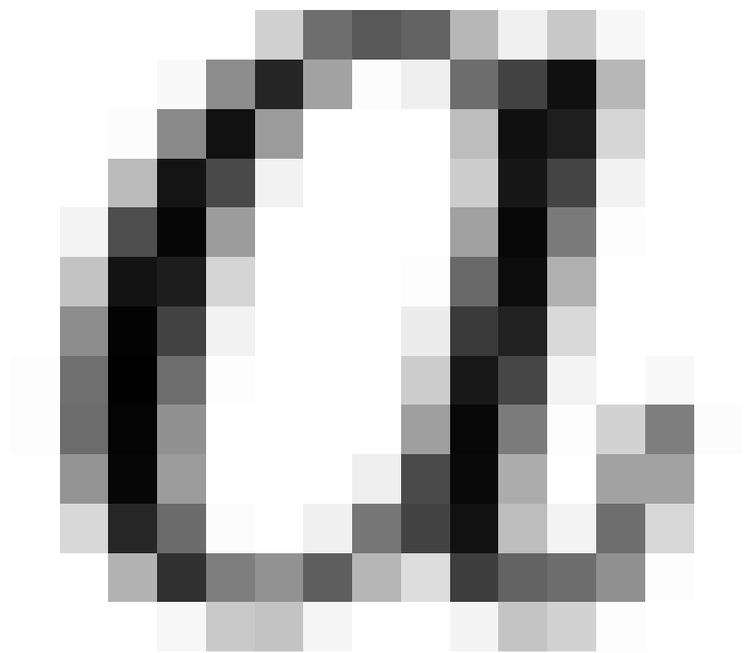


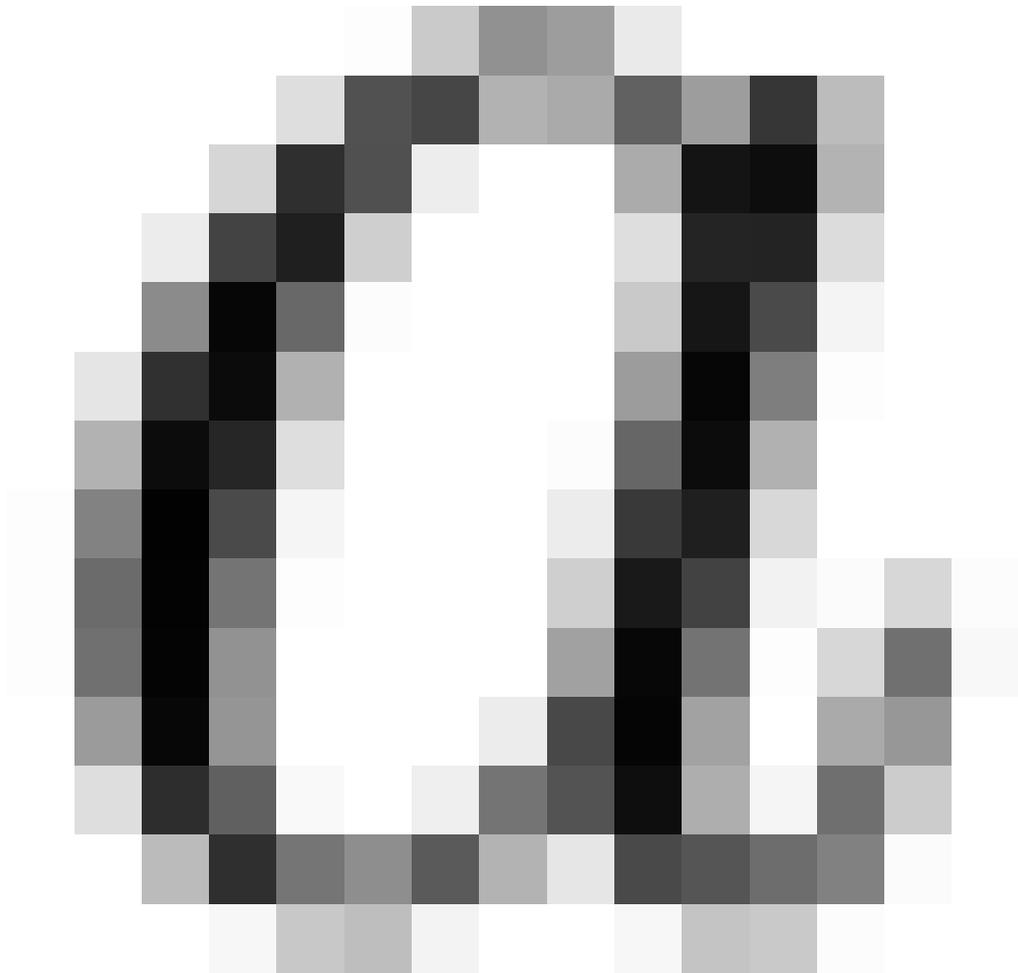


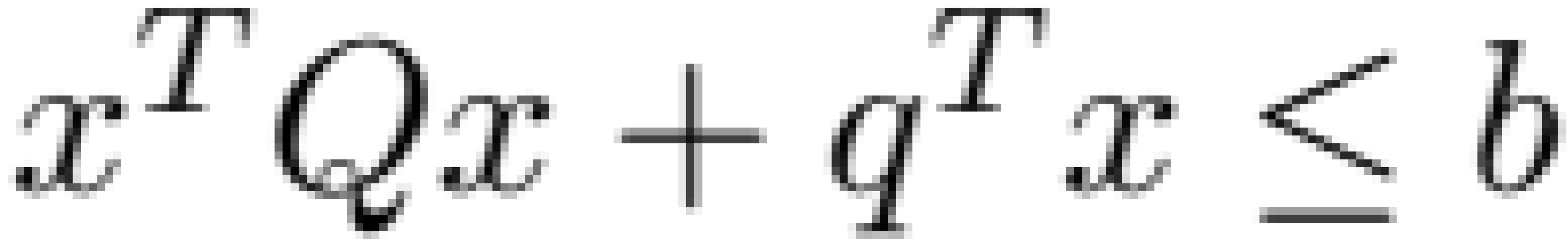




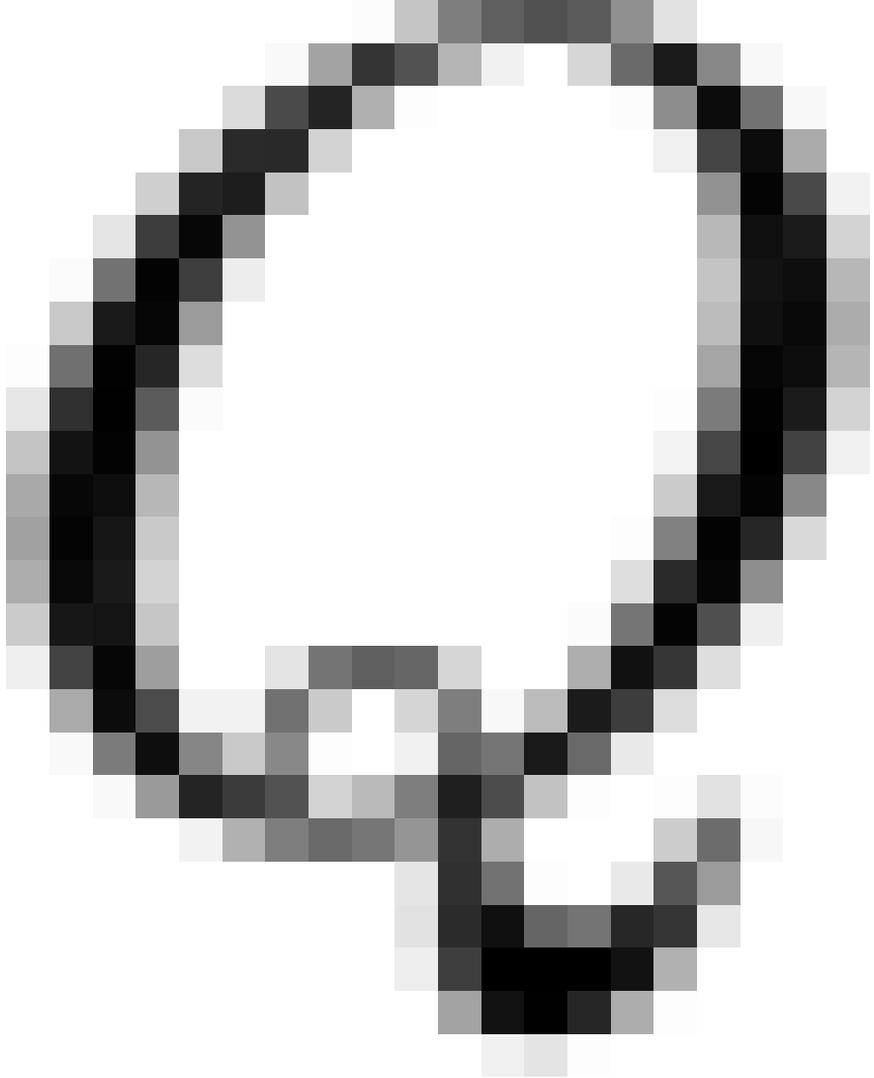


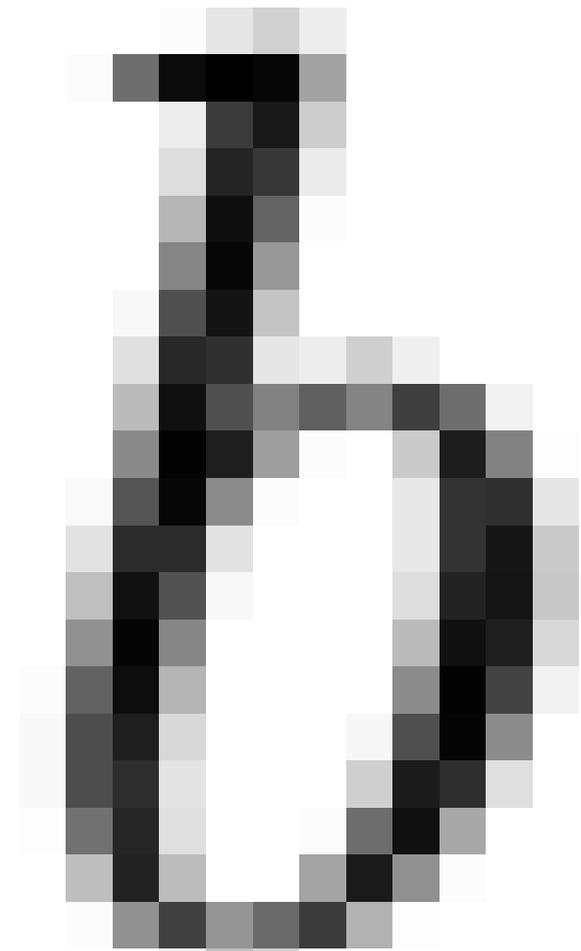
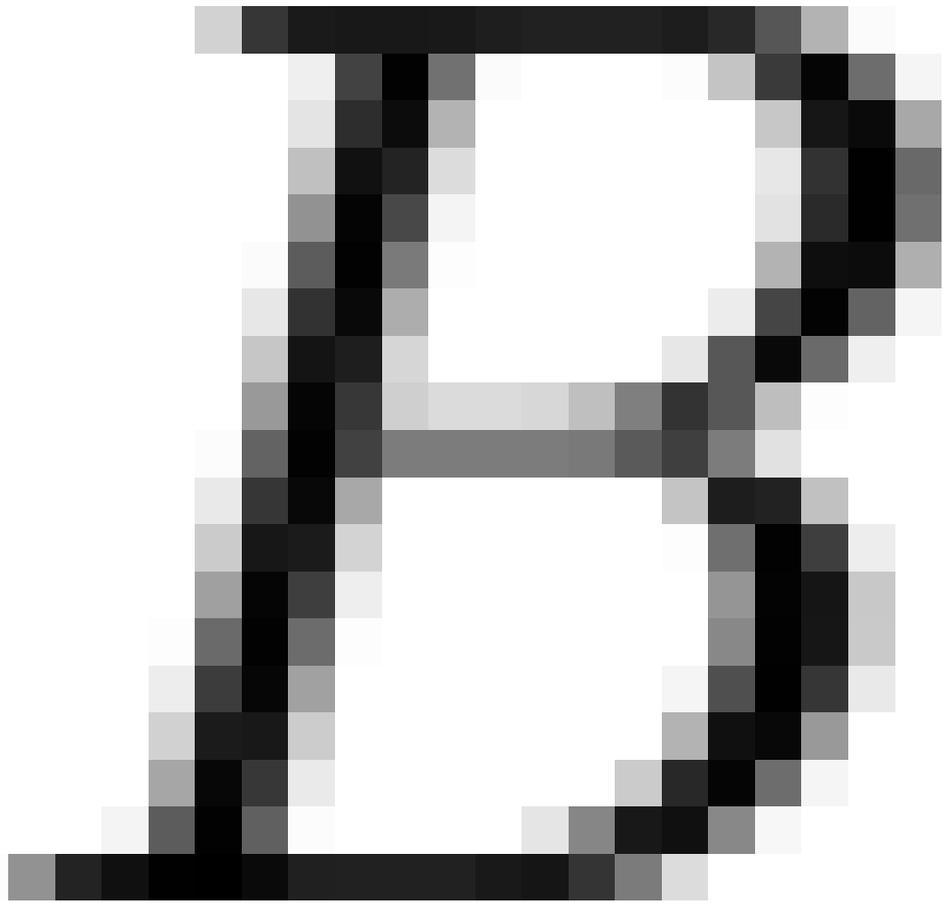


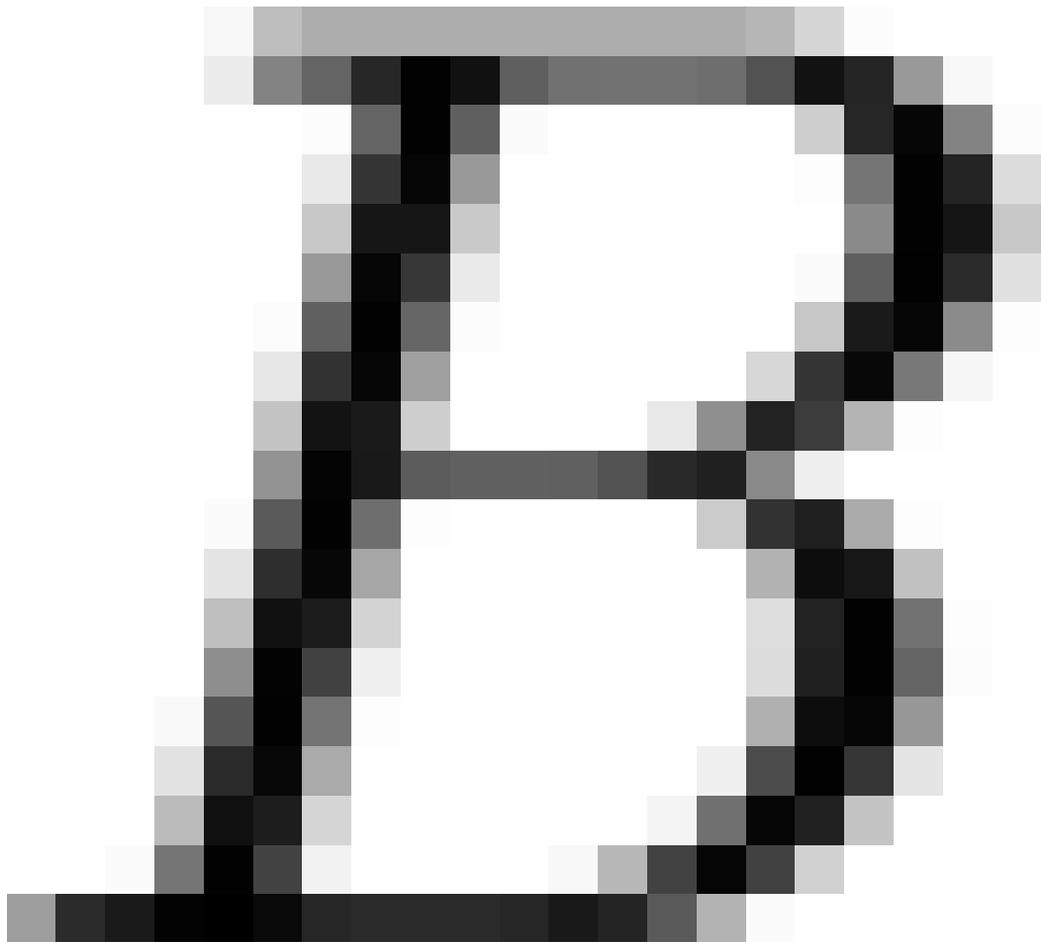


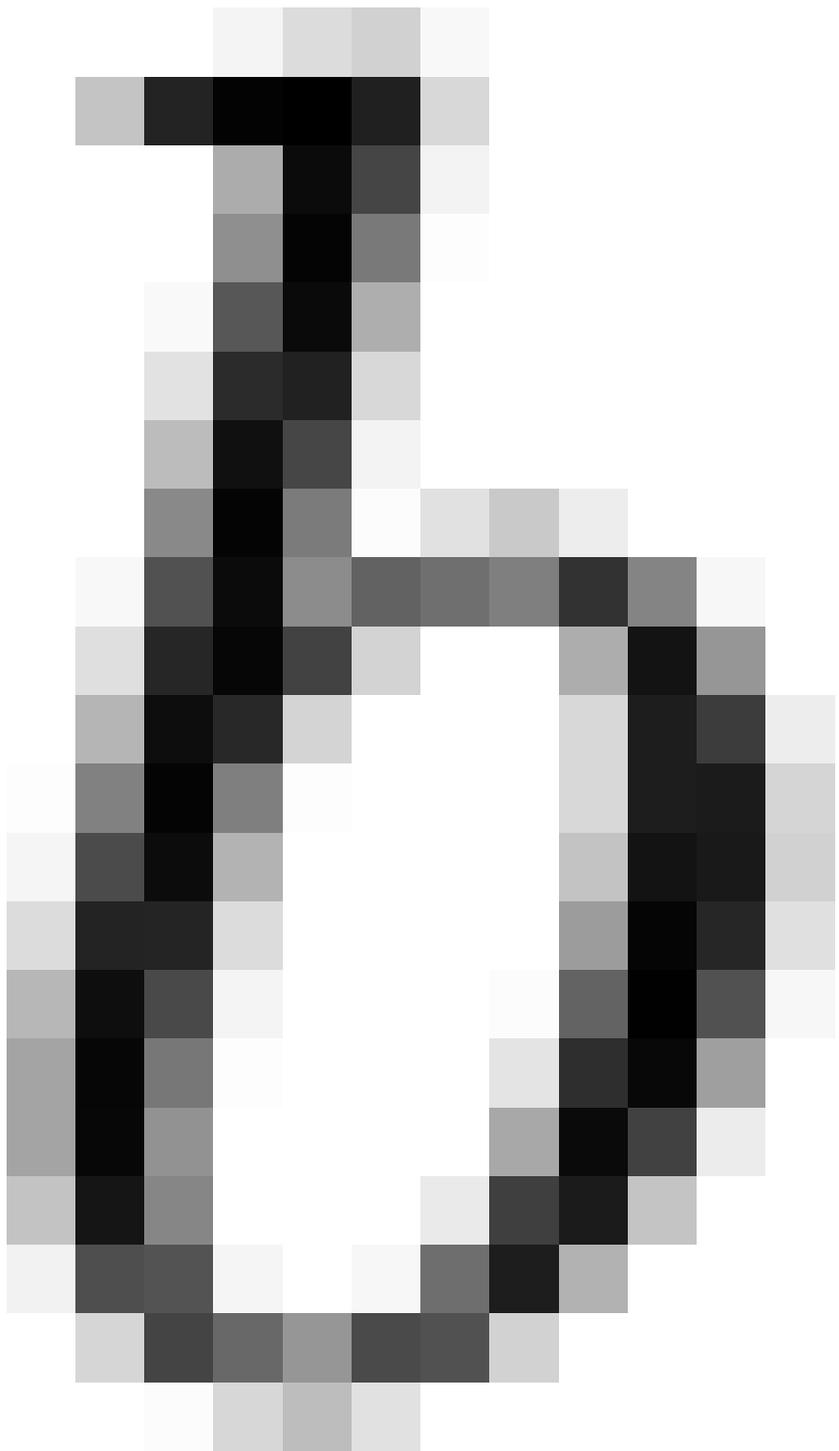


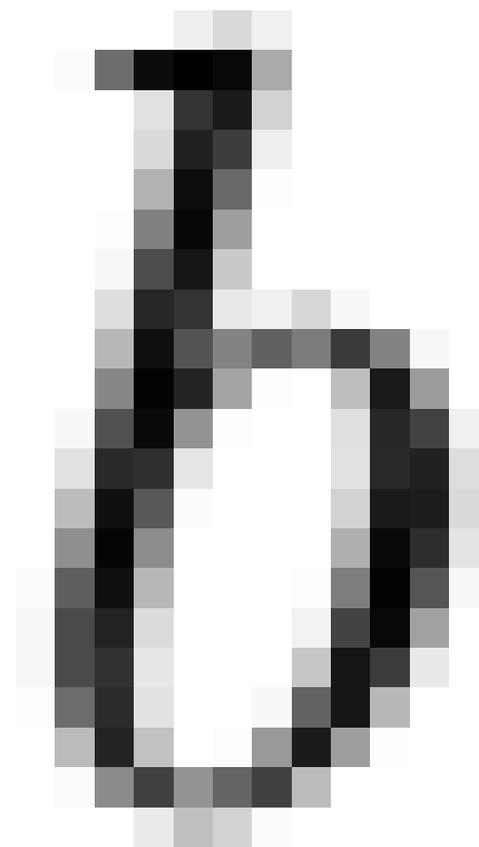
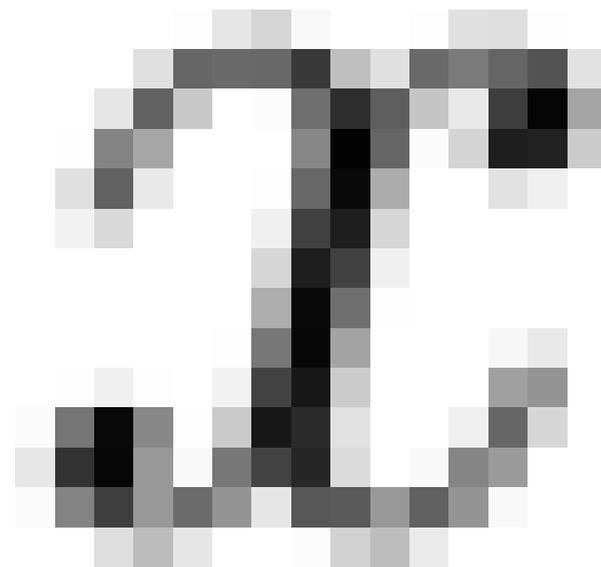
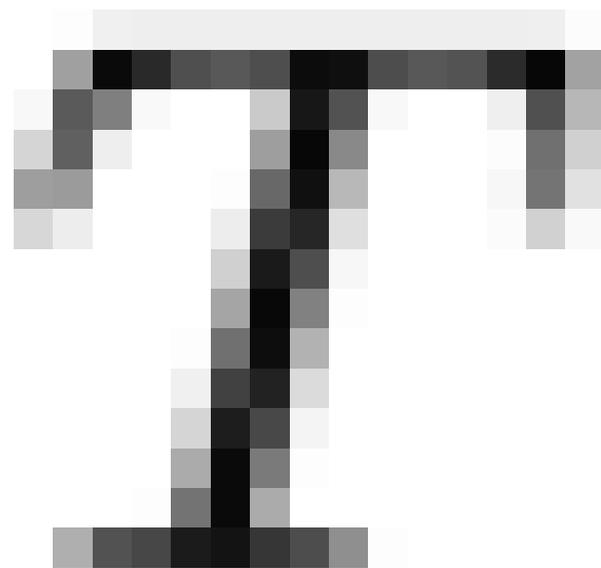
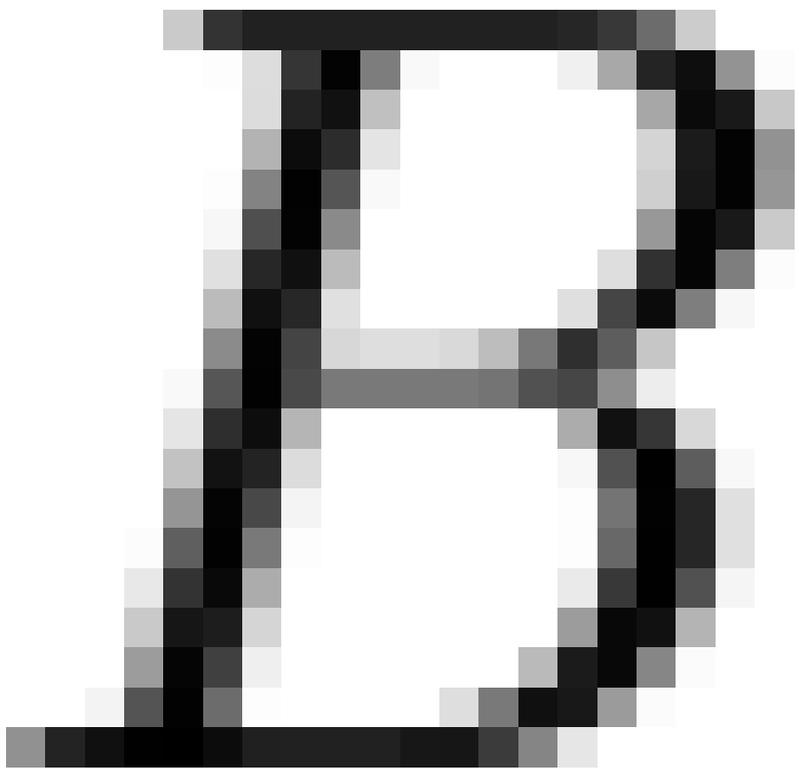
2020 + 2020 = 4040

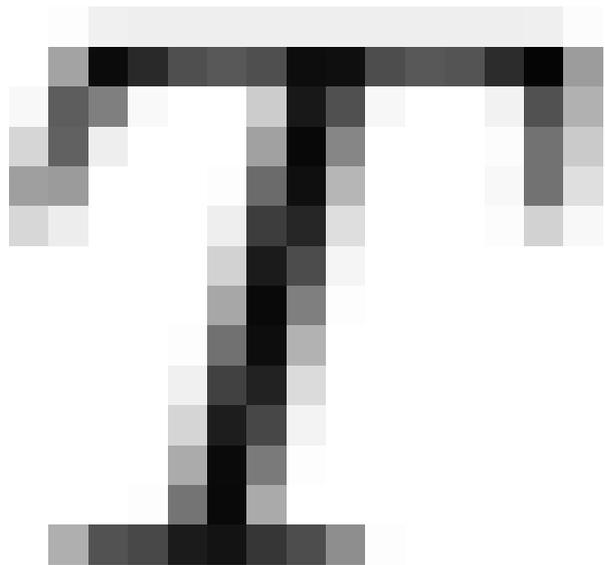
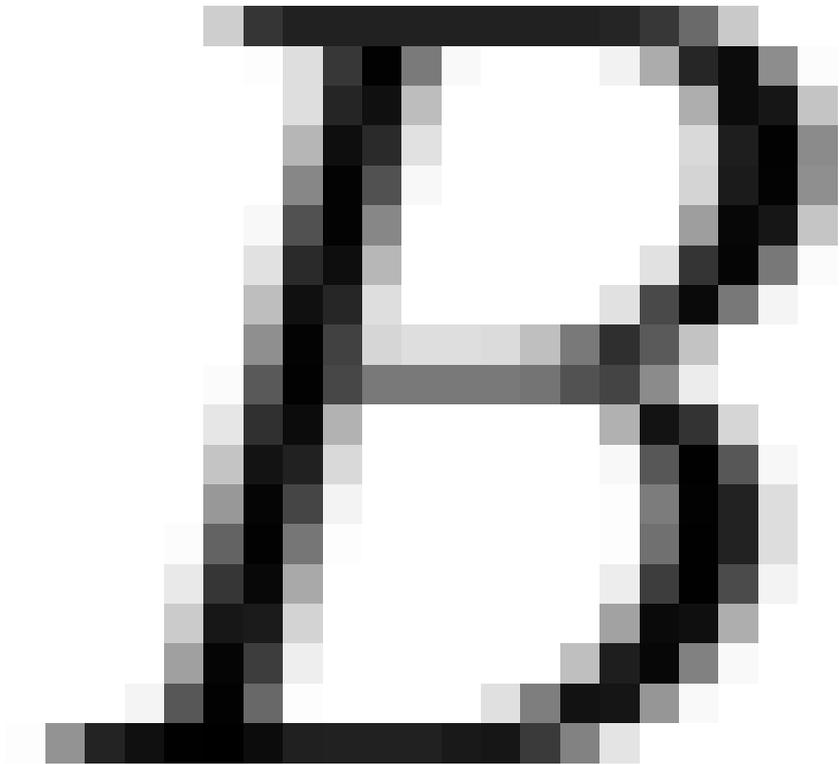


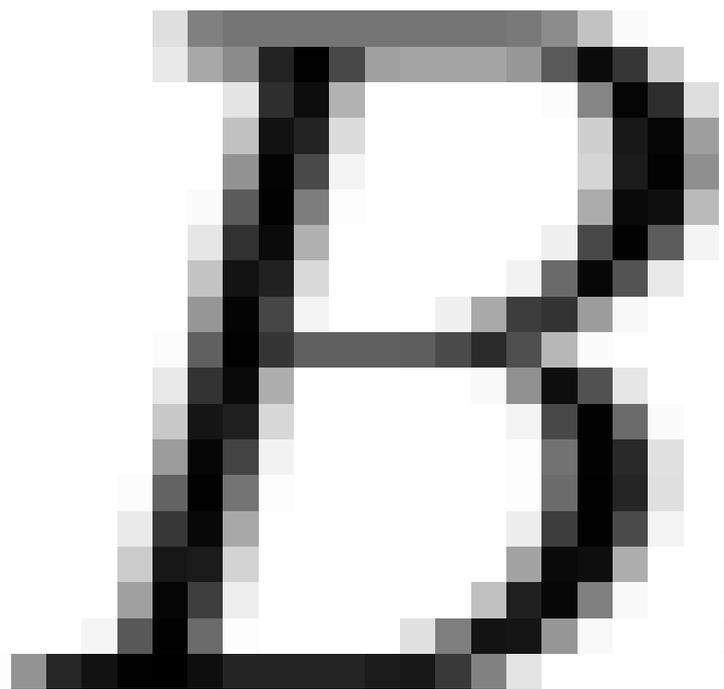
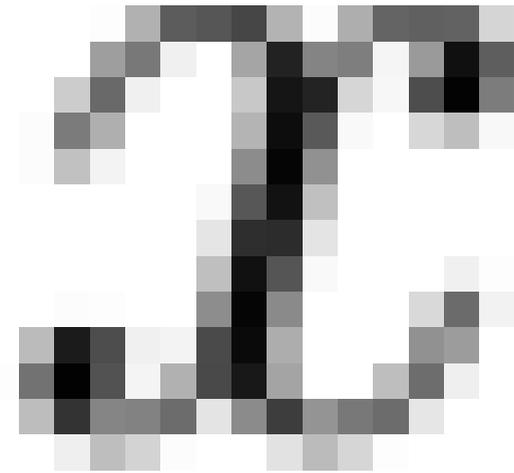




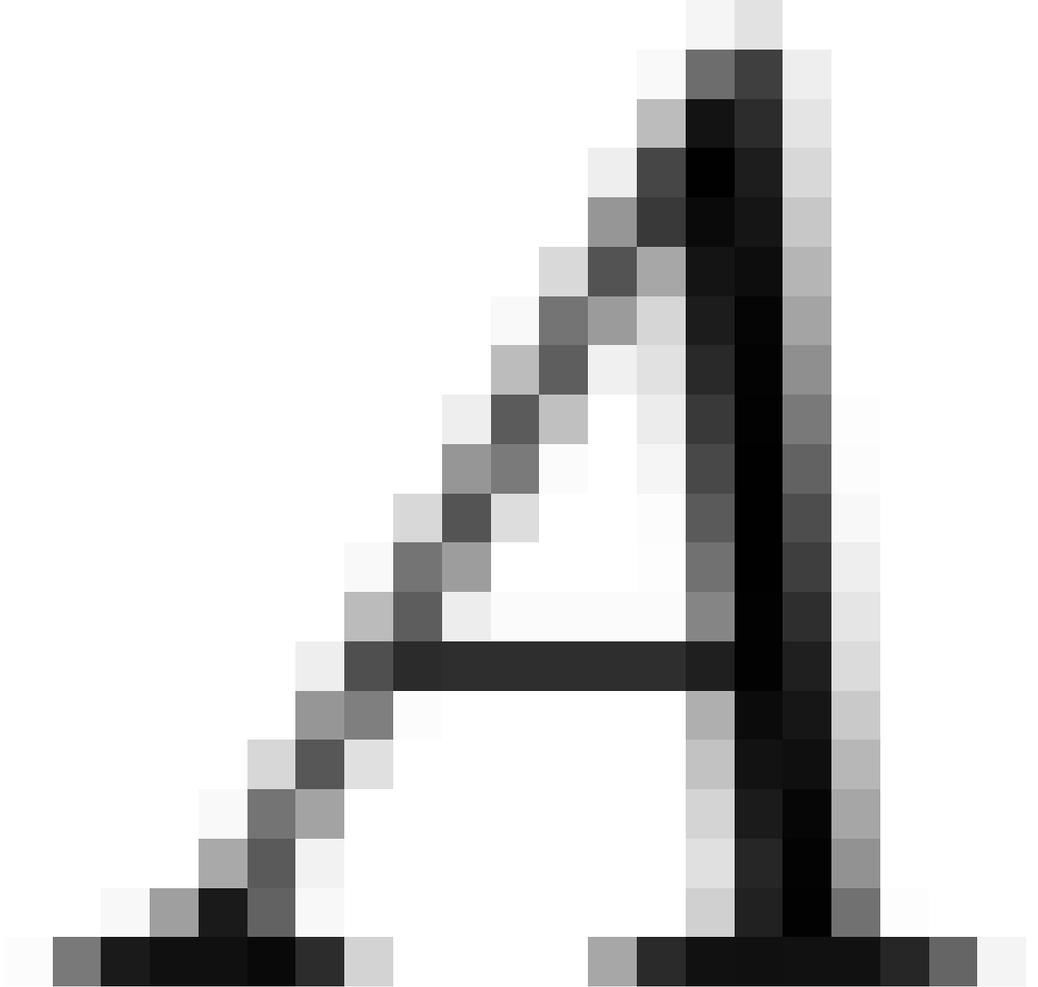


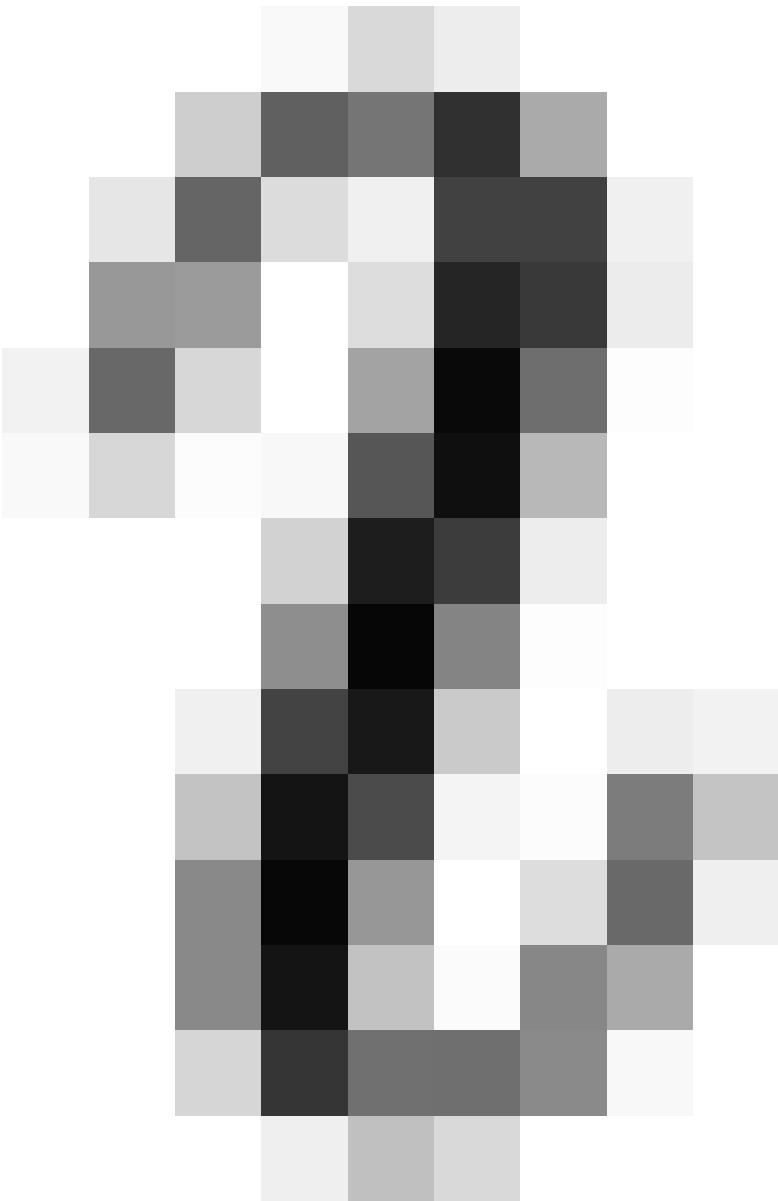
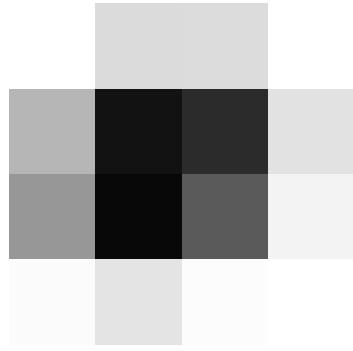


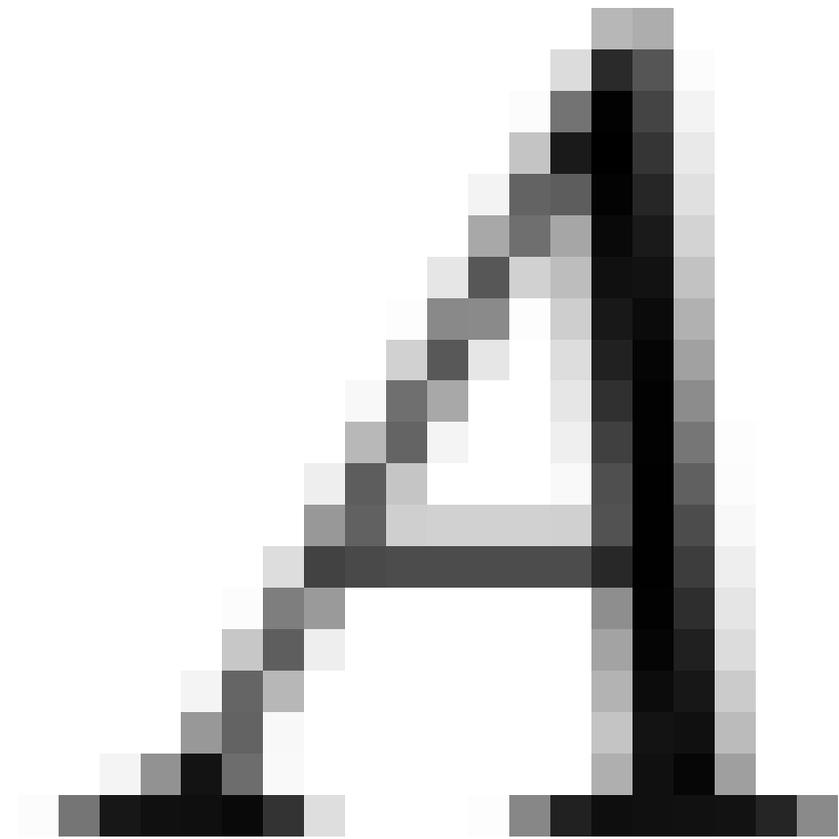
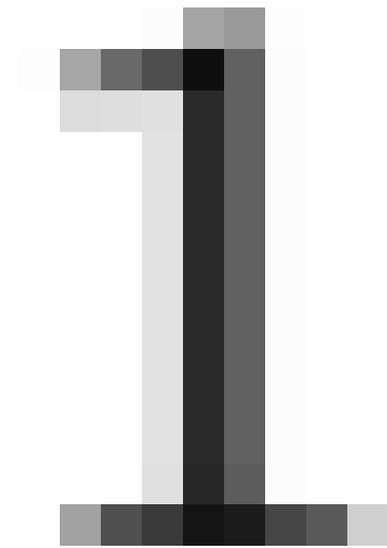
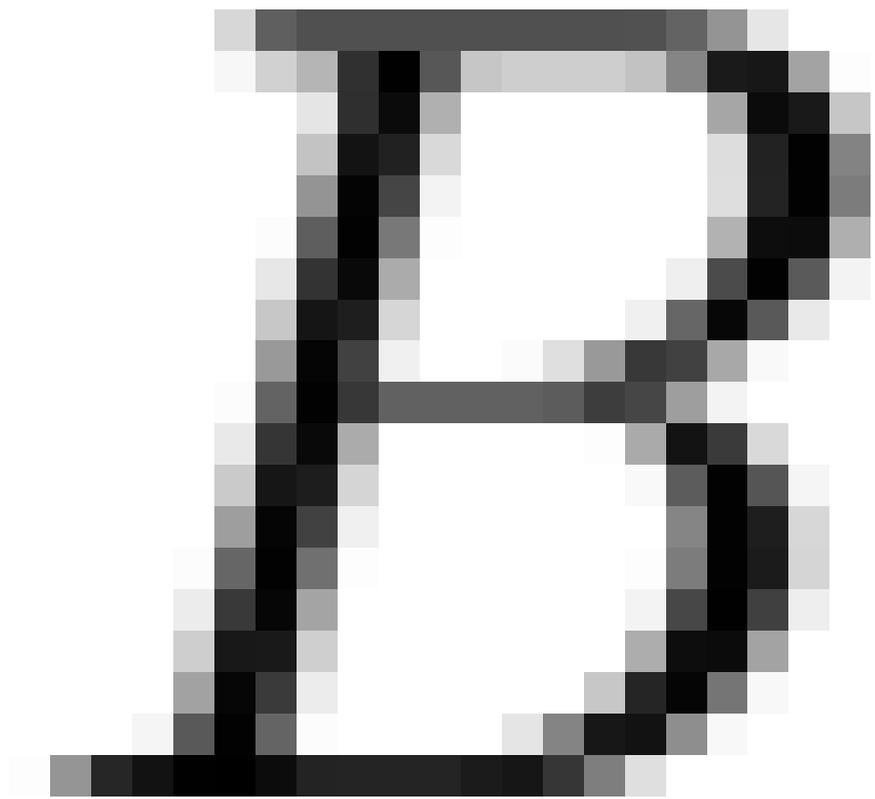


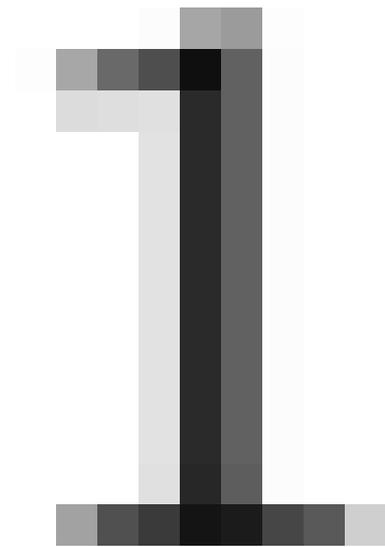
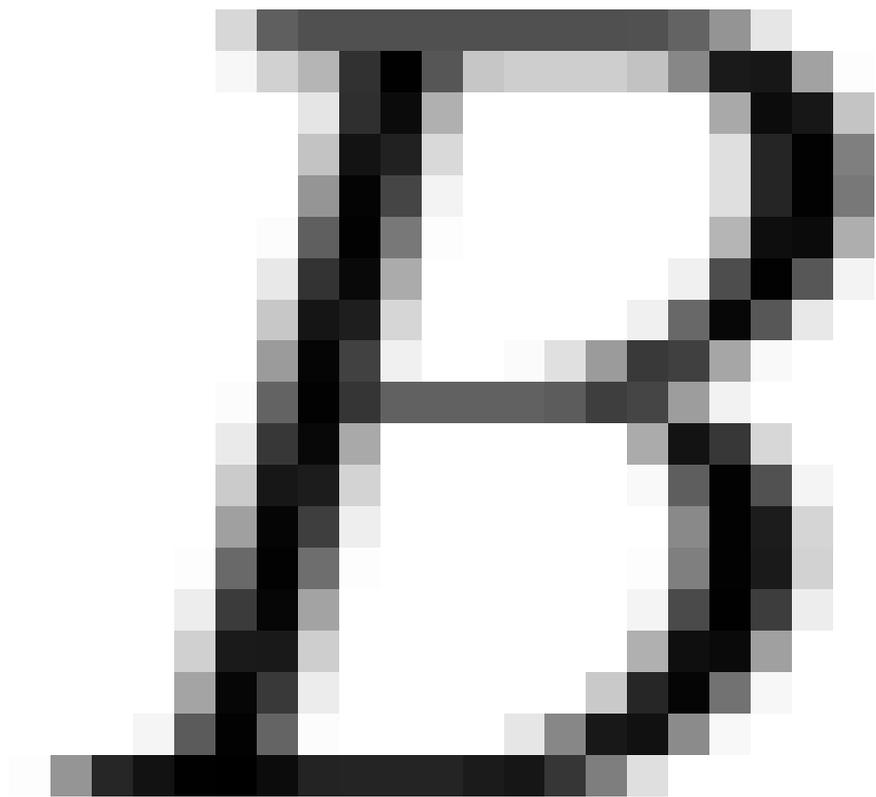
A pixelated, grayscale representation of the uppercase letter 'B'. The letter is composed of black and gray pixels, giving it a blocky, digital appearance. It features a vertical stem on the left, a horizontal crossbar, and a curved tail on the right.A pixelated, grayscale representation of the lowercase letter 'x'. The letter is formed by two intersecting diagonal strokes, rendered in black and gray pixels. The overall style is consistent with the other characters in the image.A pixelated, grayscale representation of the equals sign '='. It consists of two parallel horizontal lines, one above the other, rendered in black and gray pixels.A pixelated, grayscale representation of the lowercase letter 'a'. The letter is composed of a vertical stem, a horizontal crossbar, and a curved tail that loops back to the right. It is rendered in black and gray pixels.

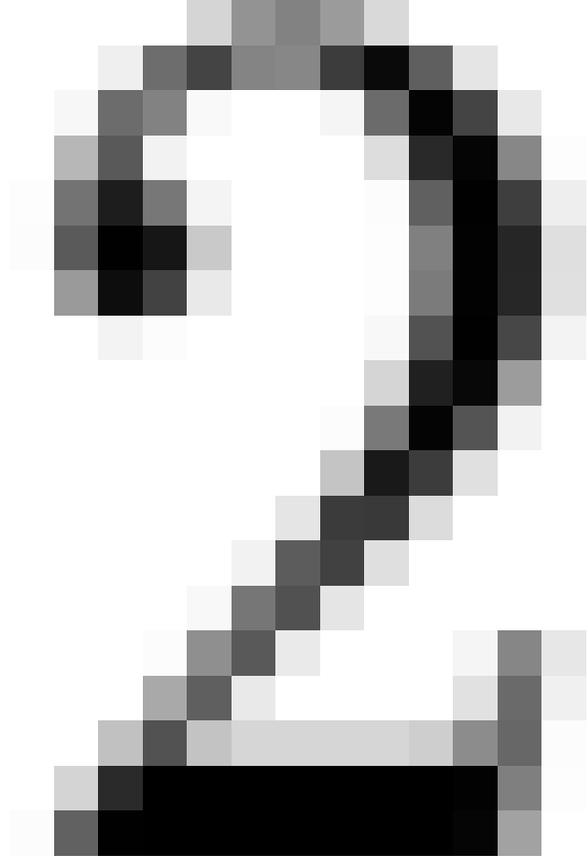


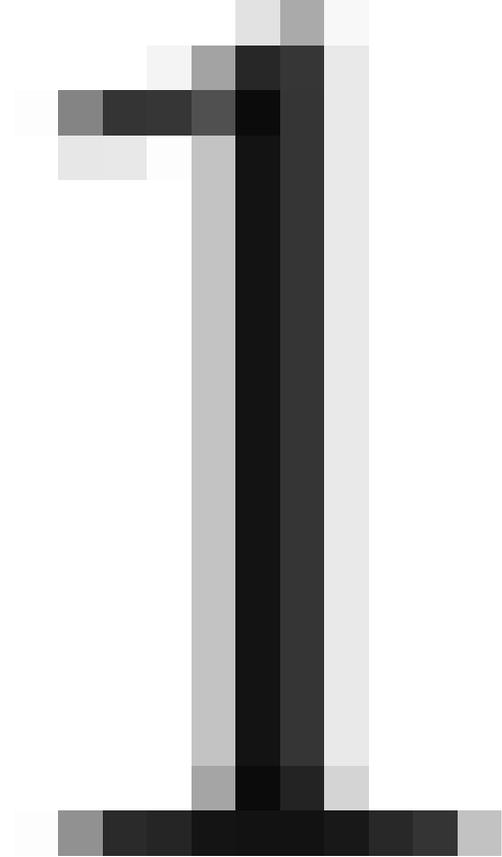


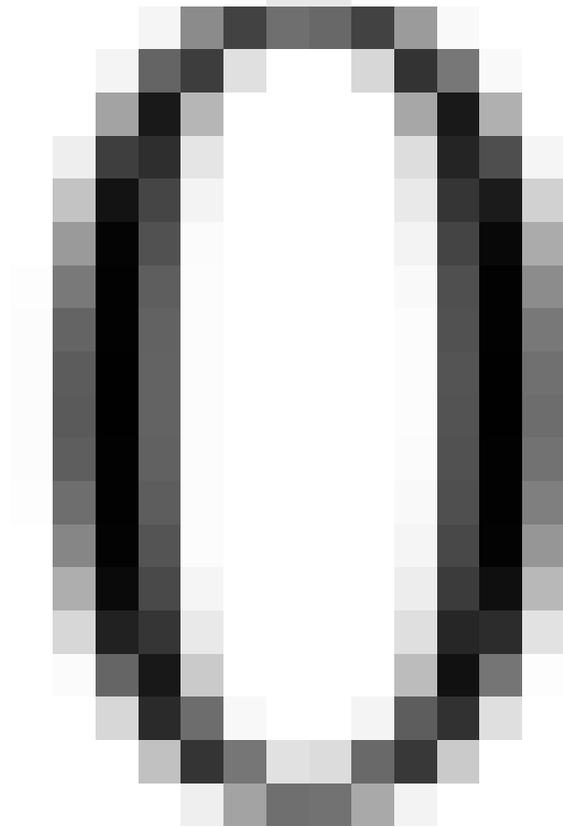
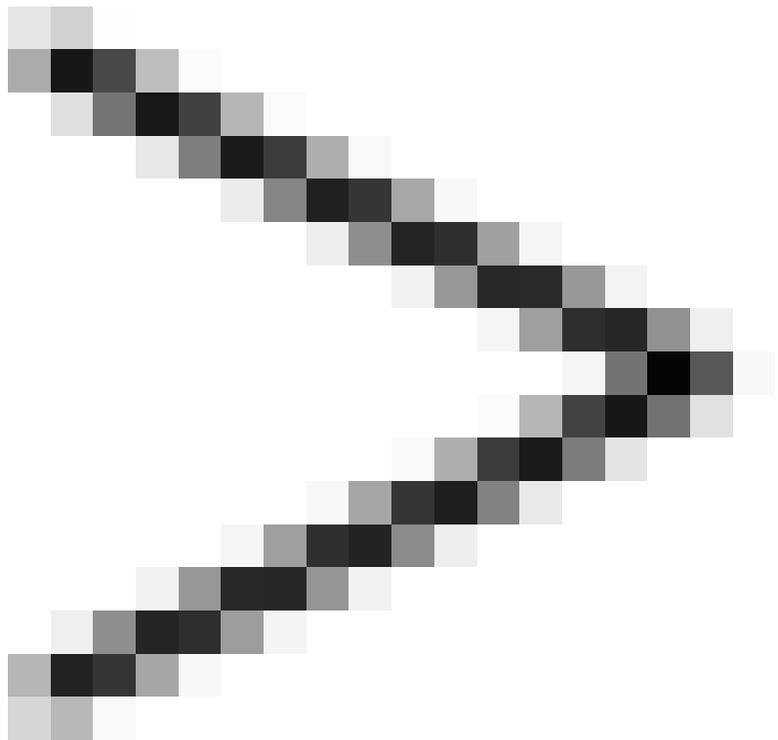




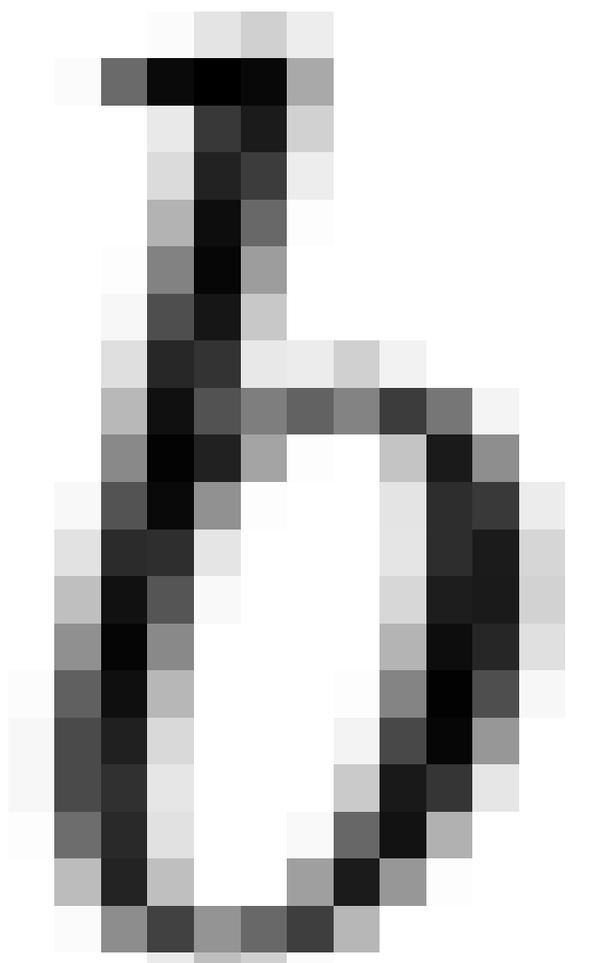
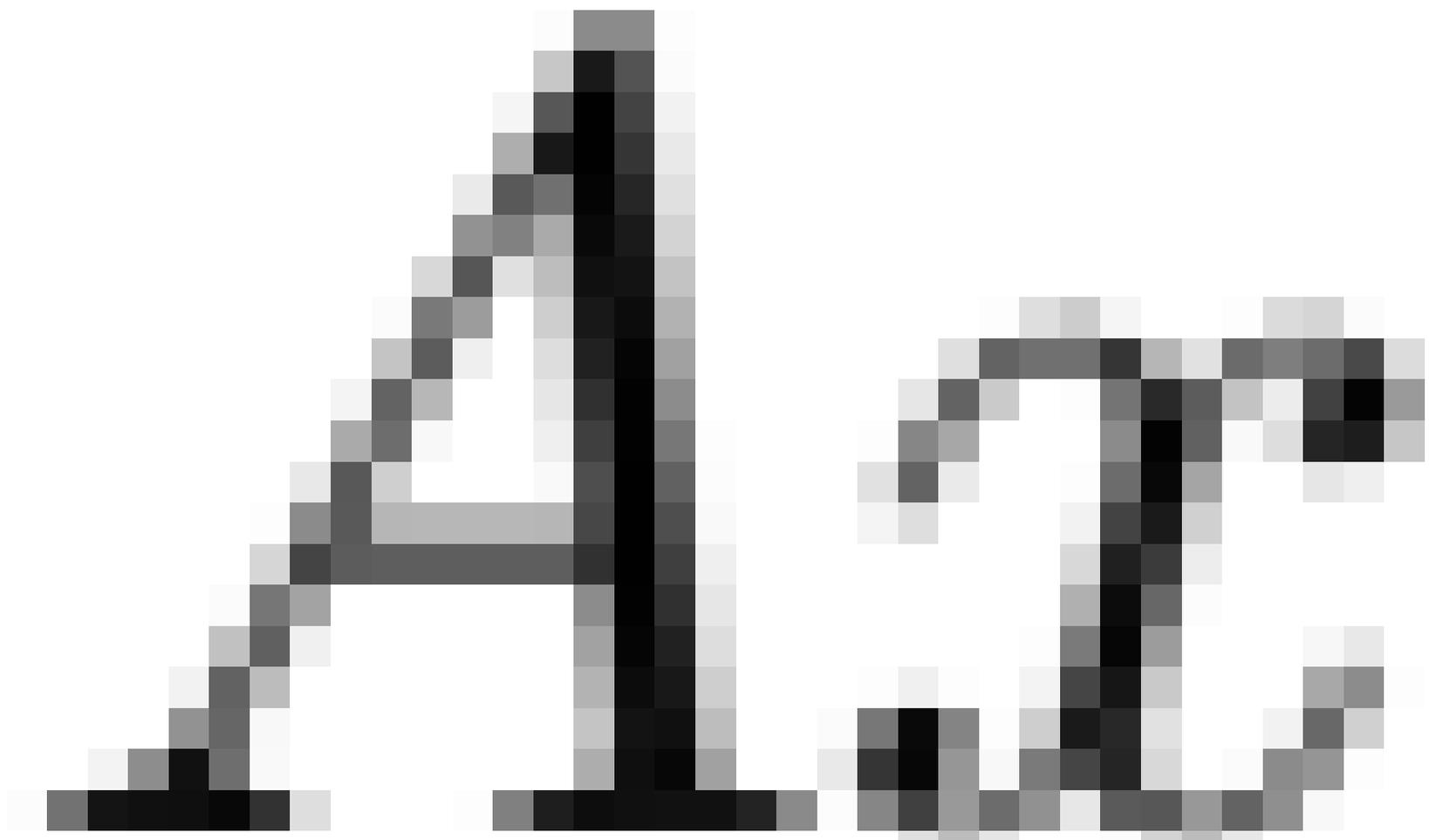


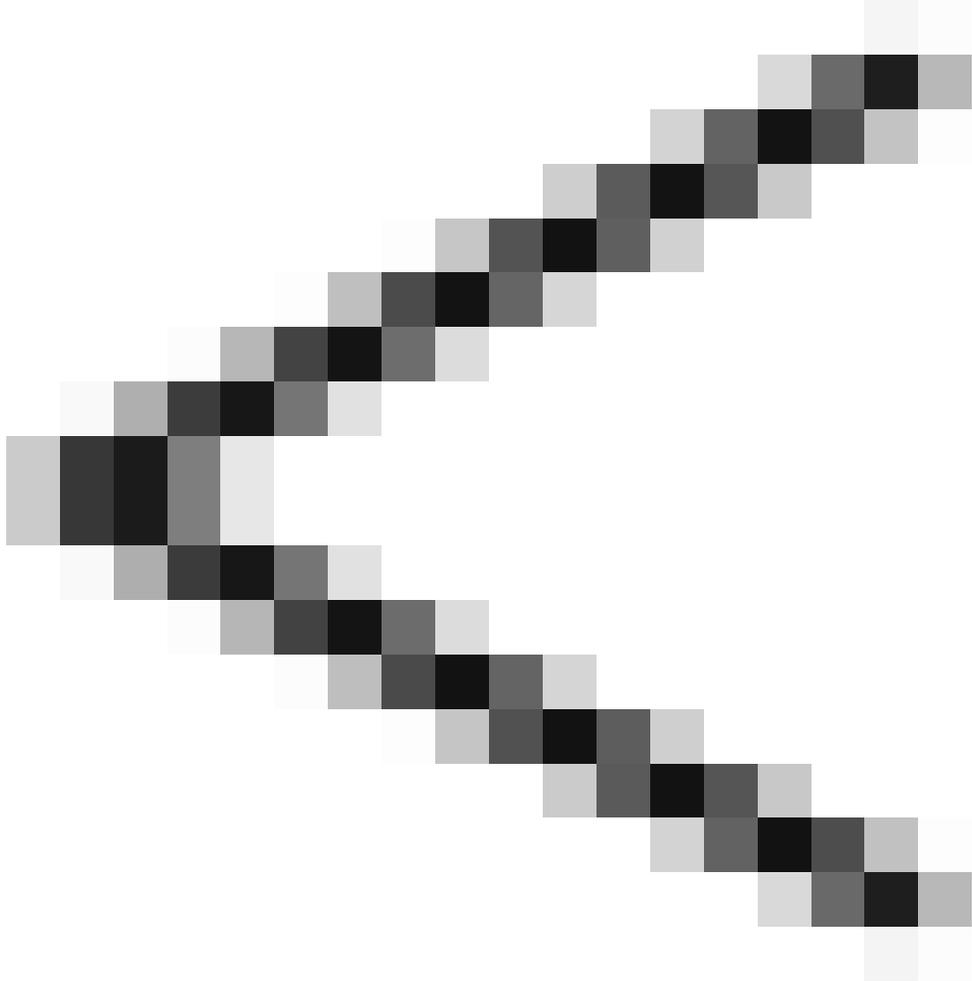


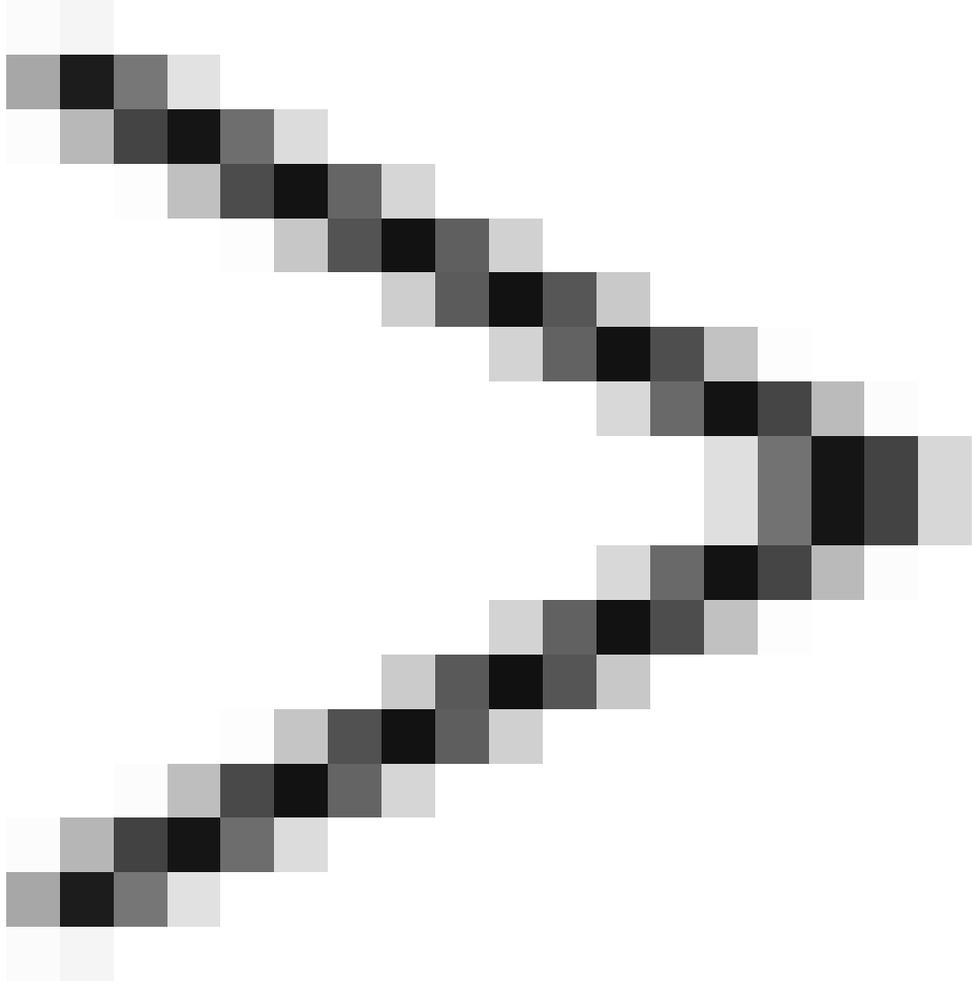












1992

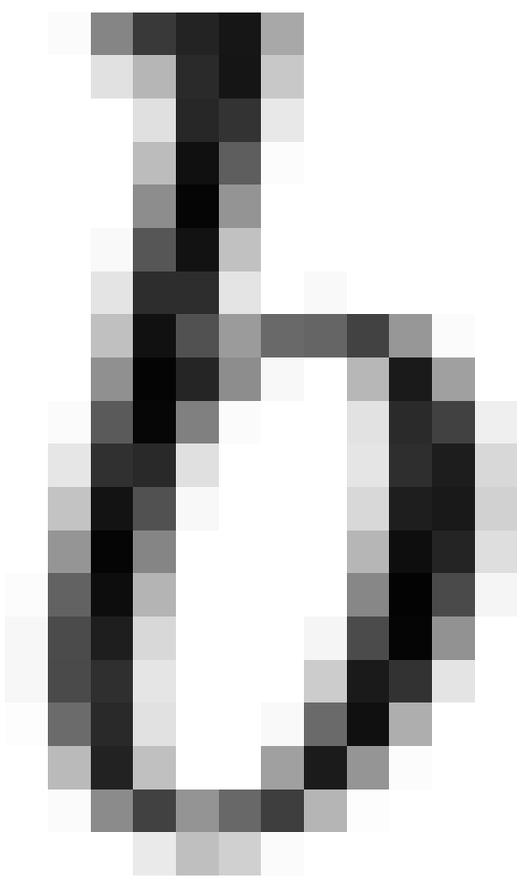
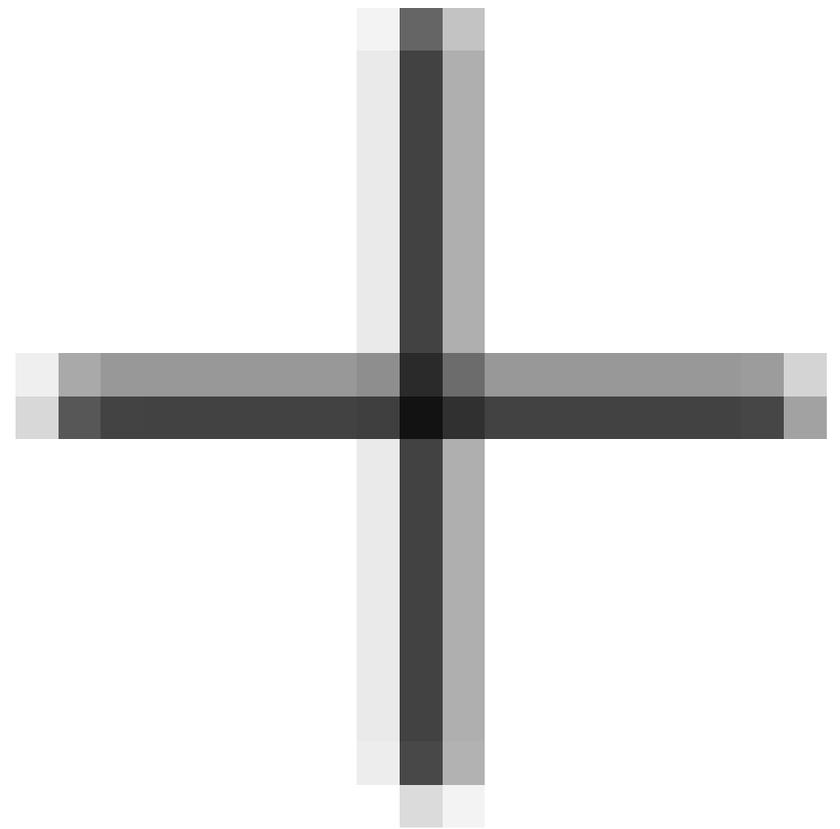
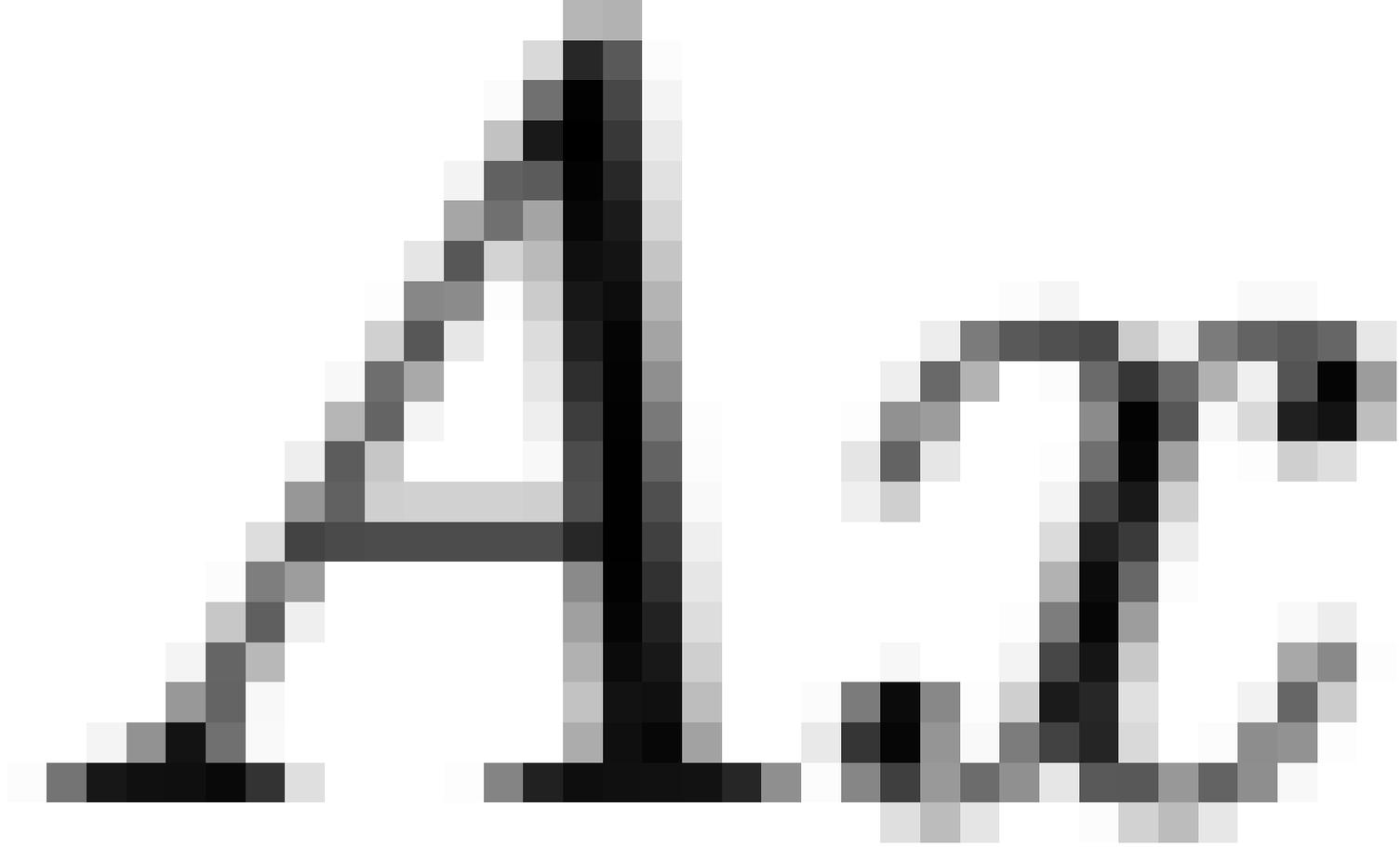
1992

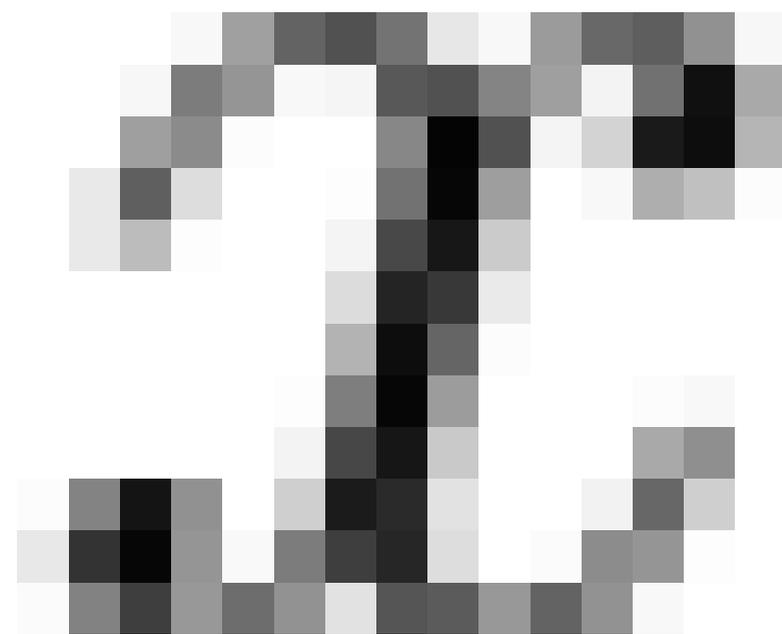
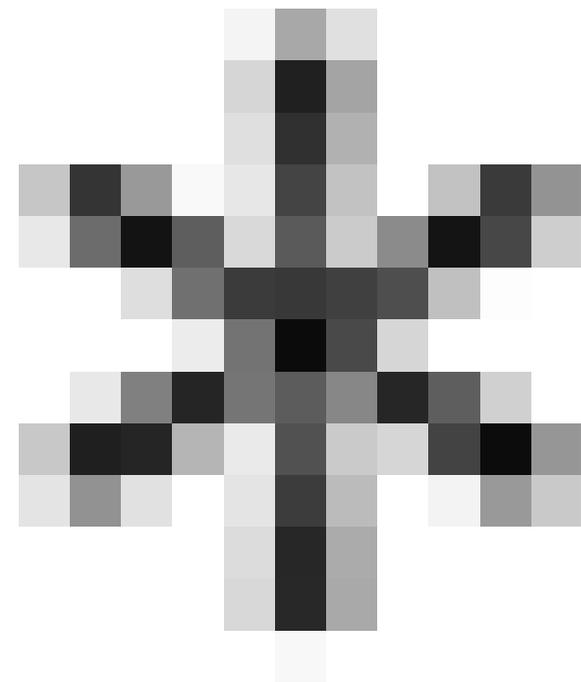
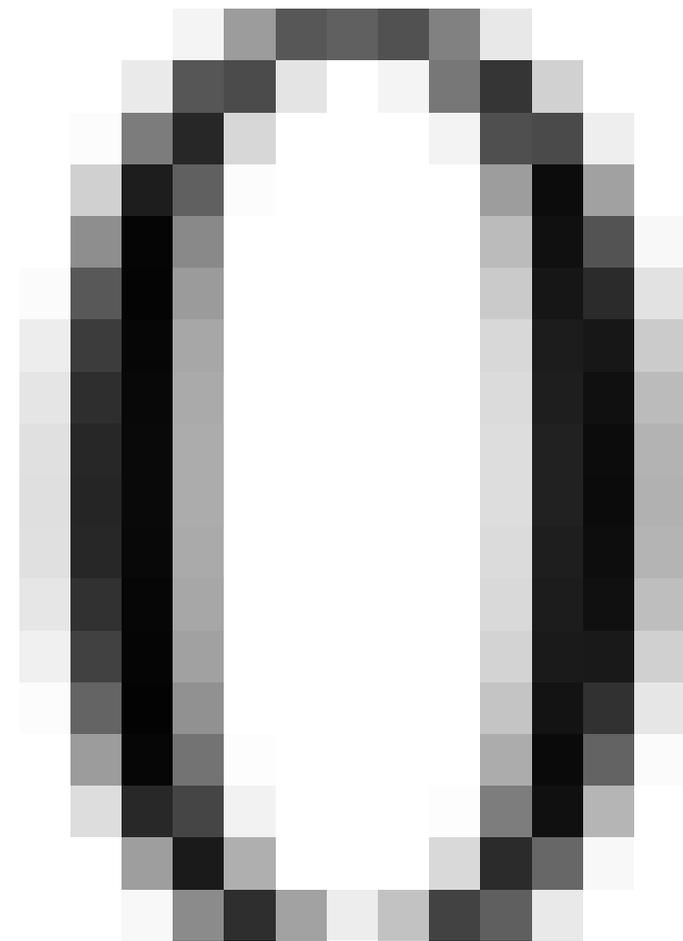
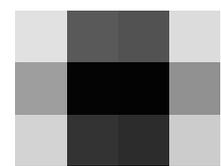
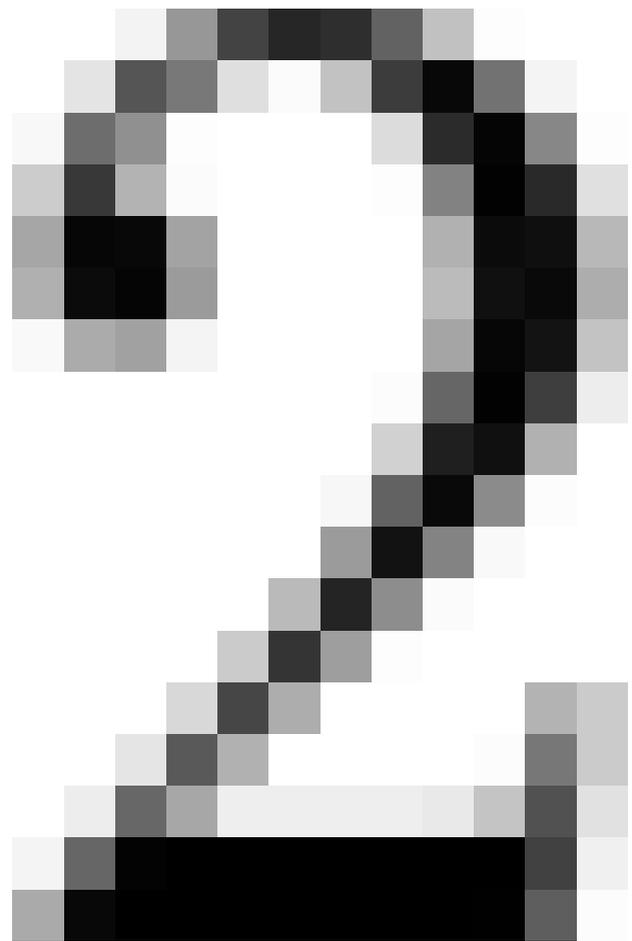
+

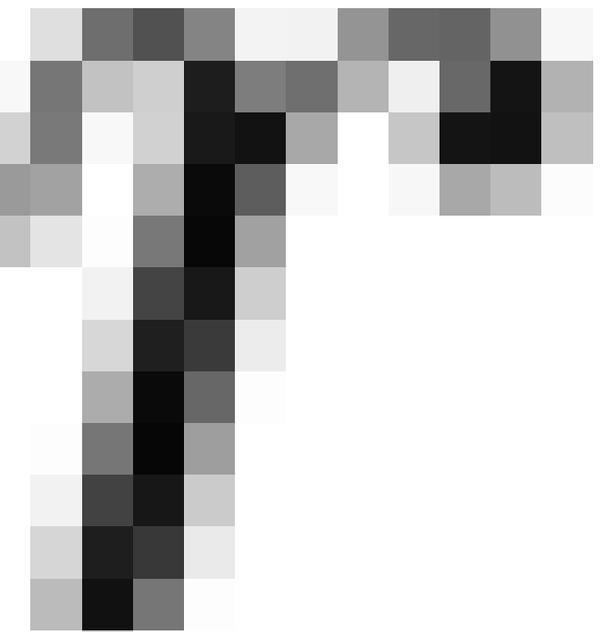
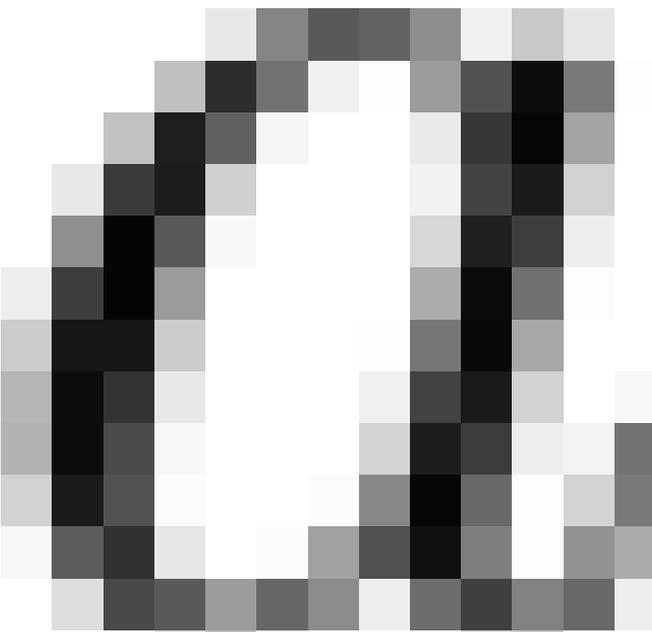
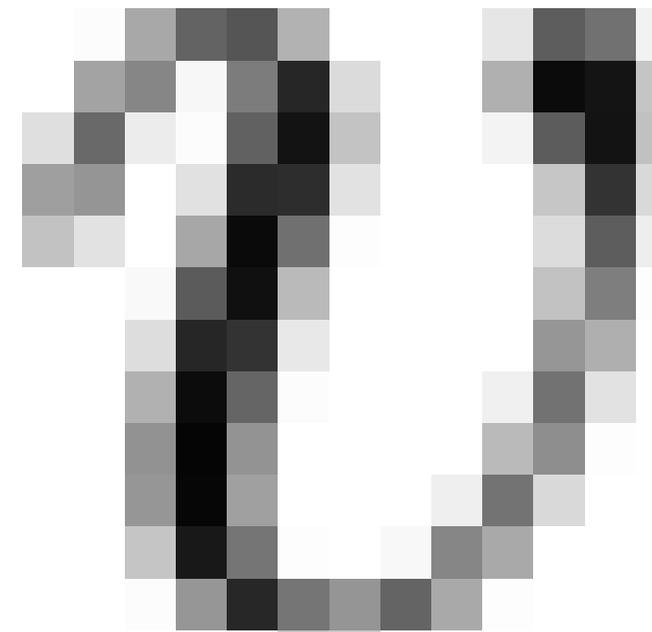
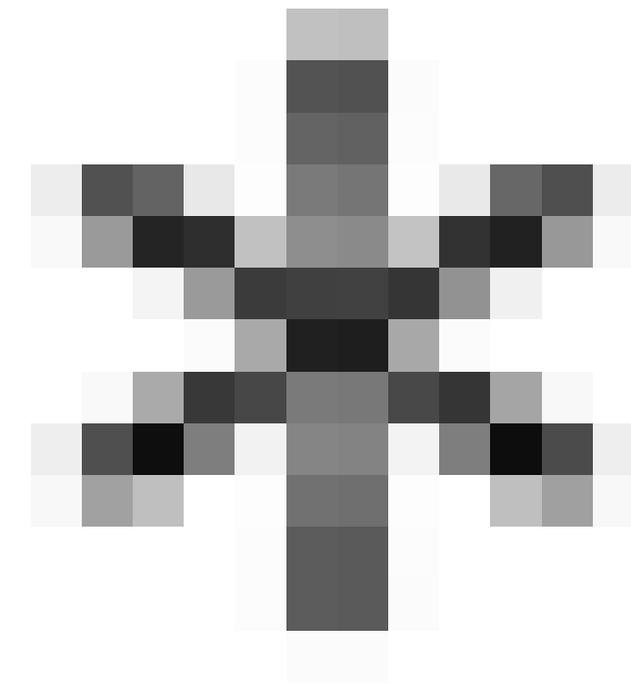
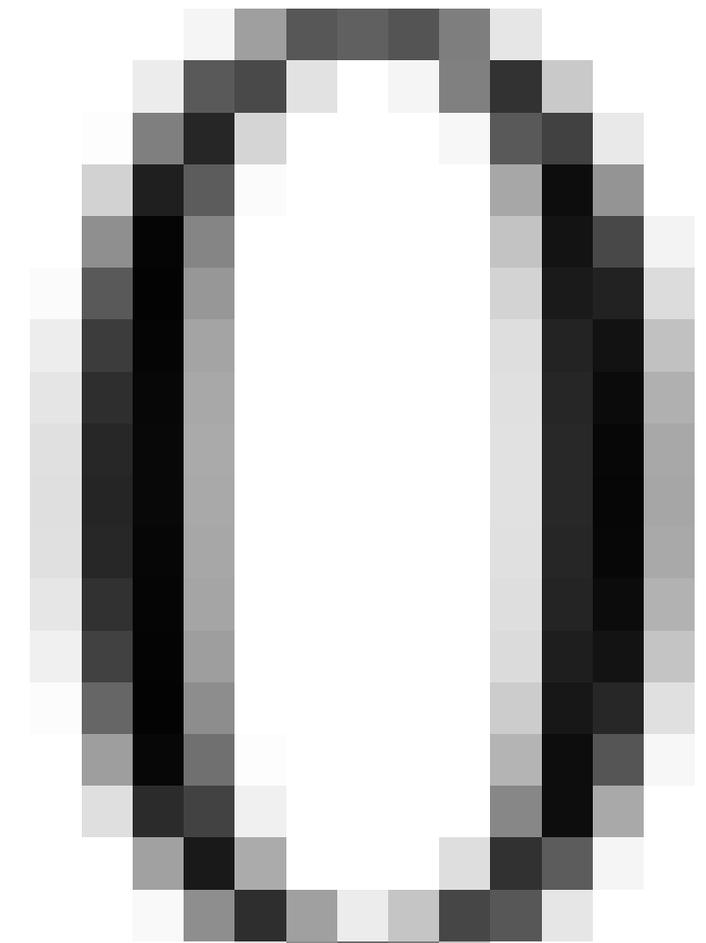
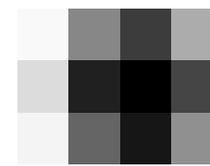
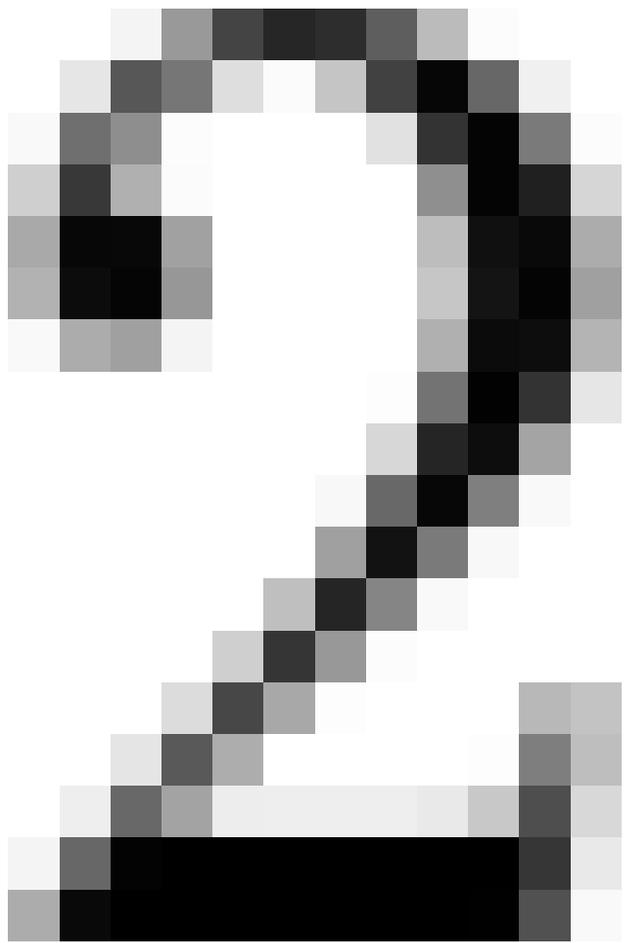
1992

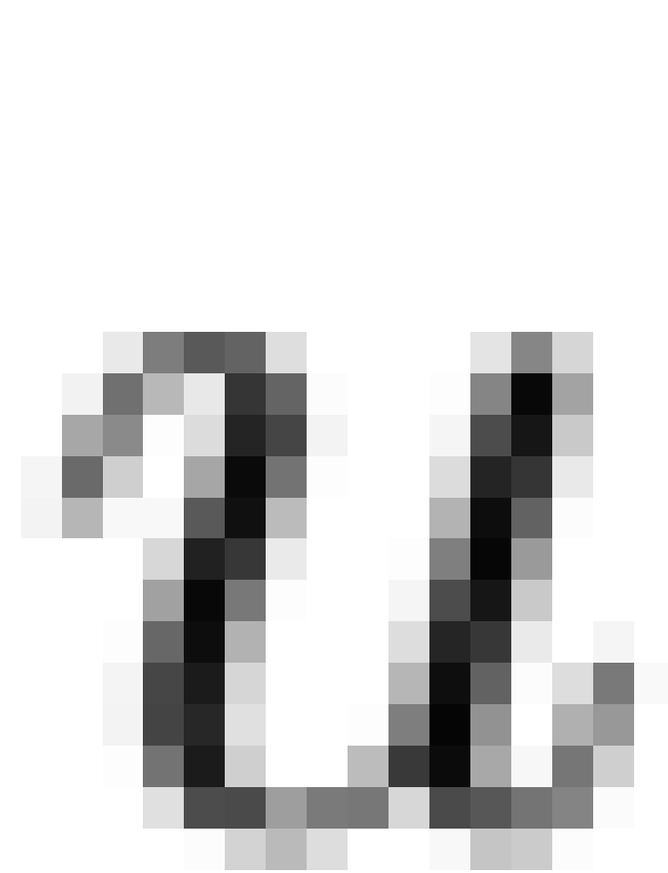
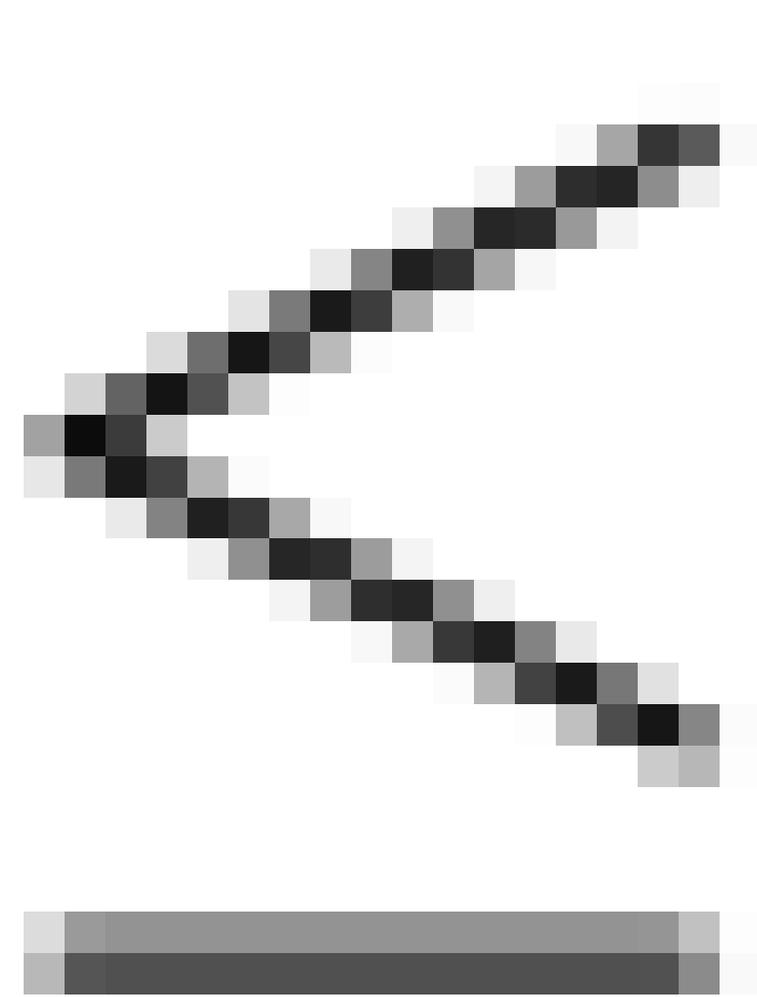
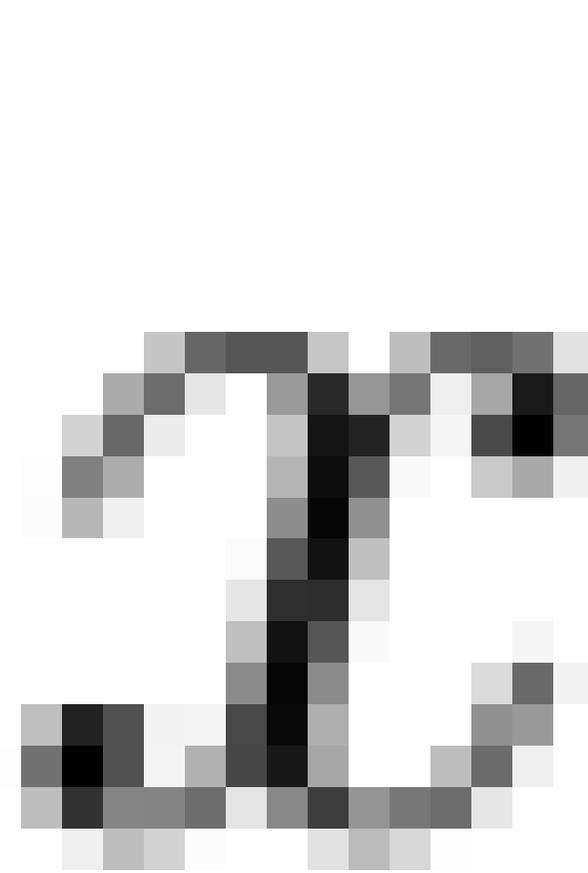
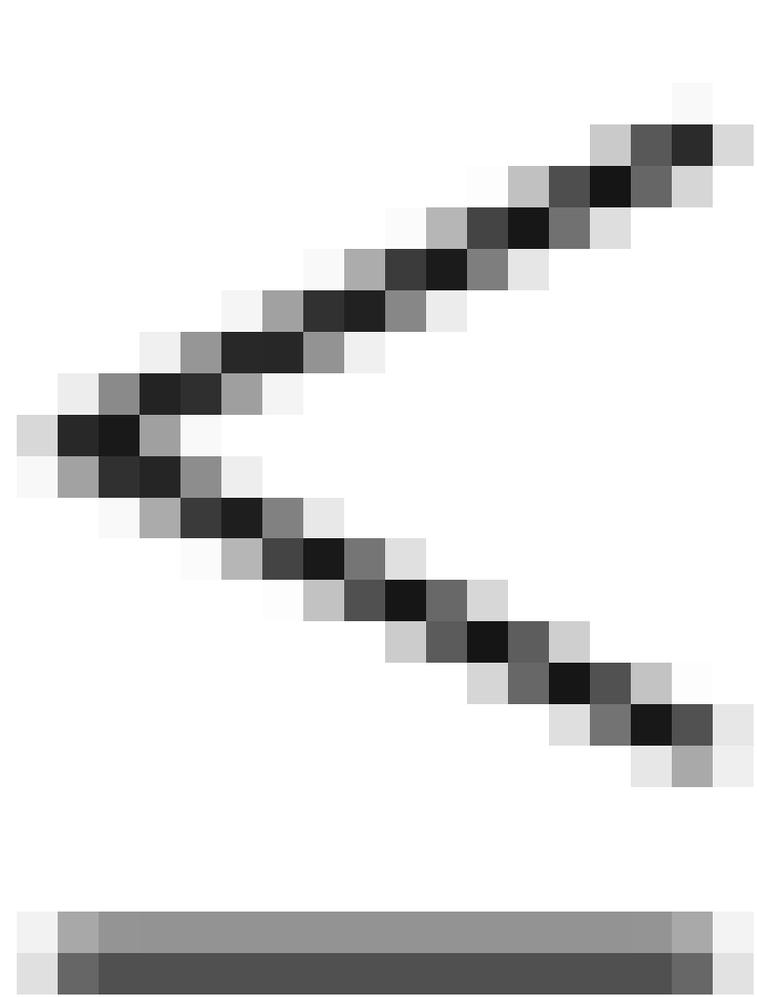
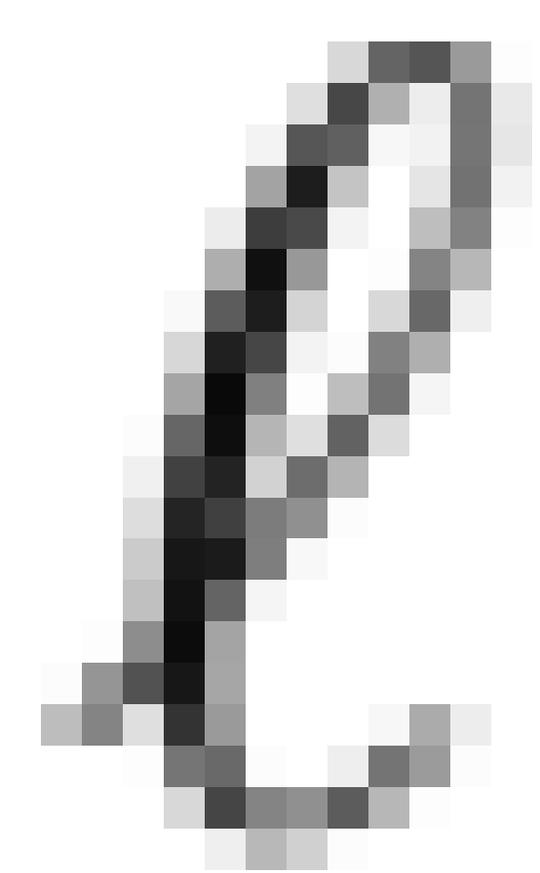
—

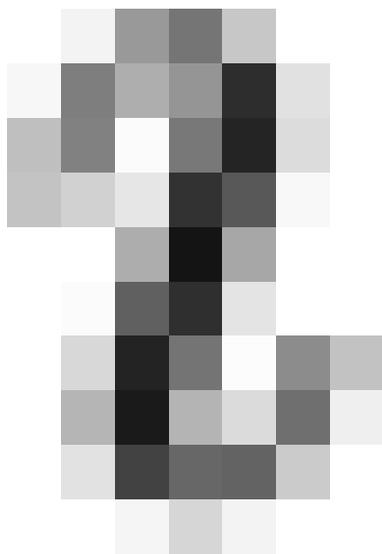
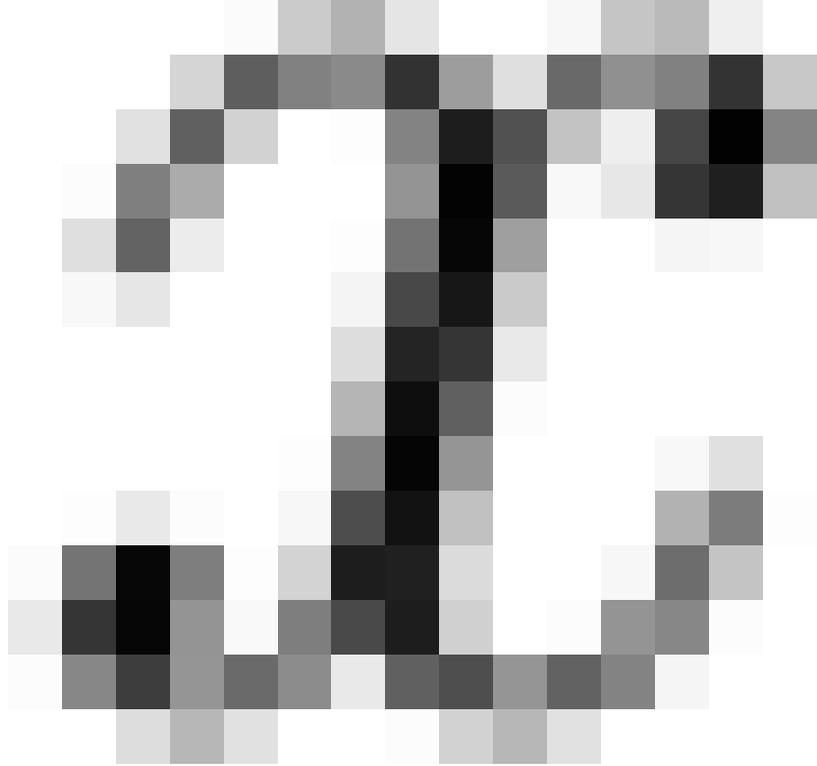
1992



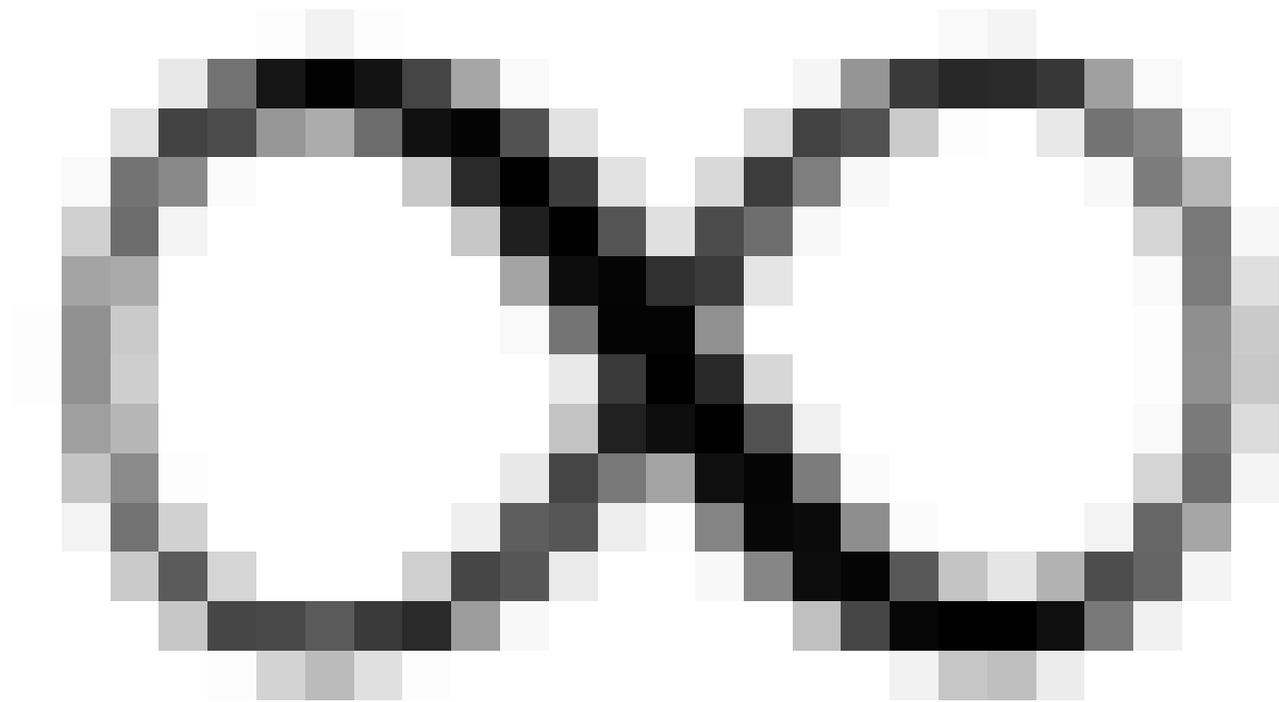




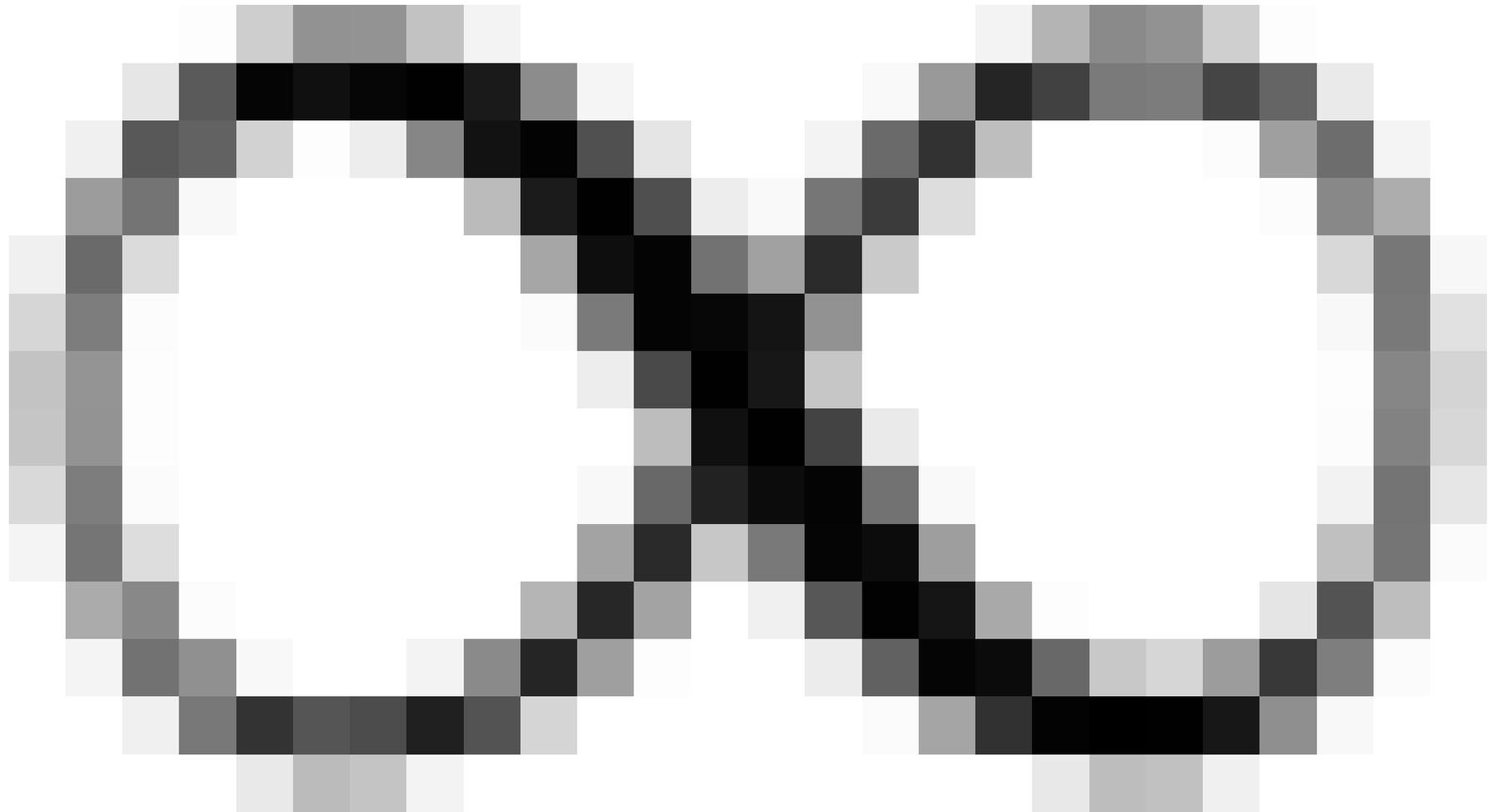




1999



x [in] mm [in] cm , x [in] cm [in] mm]



x [1999] = $\frac{1}{2}$ and x [2000] = $\frac{1}{2}$ x [2001] = $\frac{1}{2}$

x [resvar] = oil[x] [evar]

x [binary] = binary(x) and send the

1. **Introduction**

The purpose of this document is to provide a comprehensive overview of the current state of the project and to outline the key objectives and milestones for the upcoming phase. This document is intended for the project team and stakeholders.

The project has been initiated to address the challenges faced by the organization in the current market environment. The primary goal is to develop a robust and scalable solution that meets the needs of our customers and provides a competitive advantage.

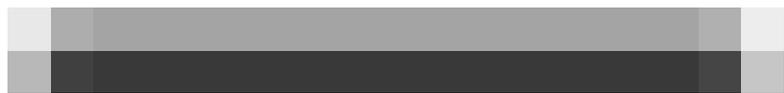
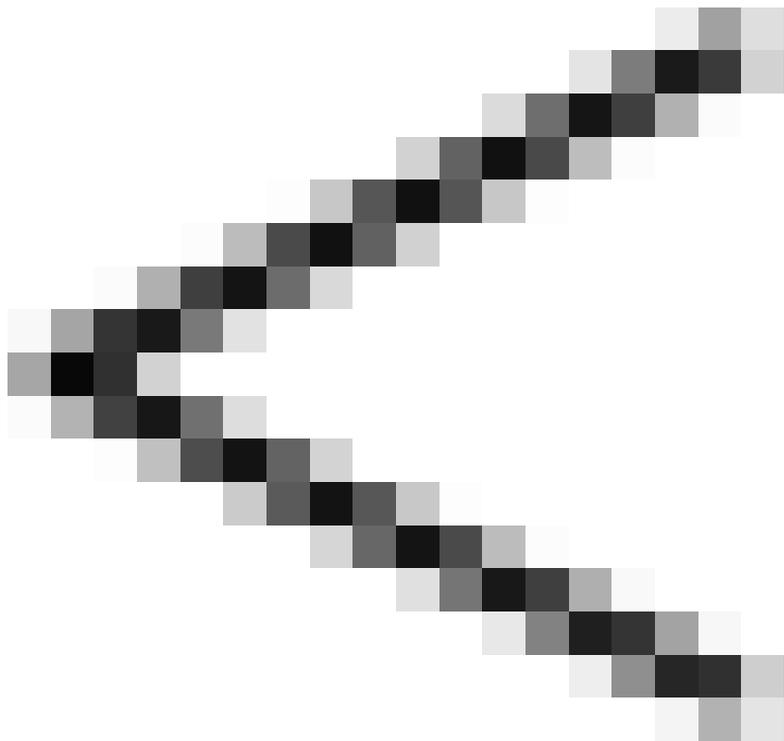
The project is organized into several key areas of focus, including:

- Market Research and Analysis
- Product Development and Design
- Marketing and Sales Strategy
- Operational Efficiency and Cost Reduction

The project team is committed to delivering high-quality results and ensuring that the project is completed on time and within budget. We will provide regular updates and reports to keep all stakeholders informed of the project's progress.

Thank you for your support and collaboration. We look forward to achieving our shared goals.

2019 [val] [val] [val] [val]



www.fair.org

$$x \text{ [var]} = p_0 x \text{ [var]}^d + p_1 x \text{ [var]}^{d-1} + \dots + p_{d-1} x \text{ [var]} + p_d$$

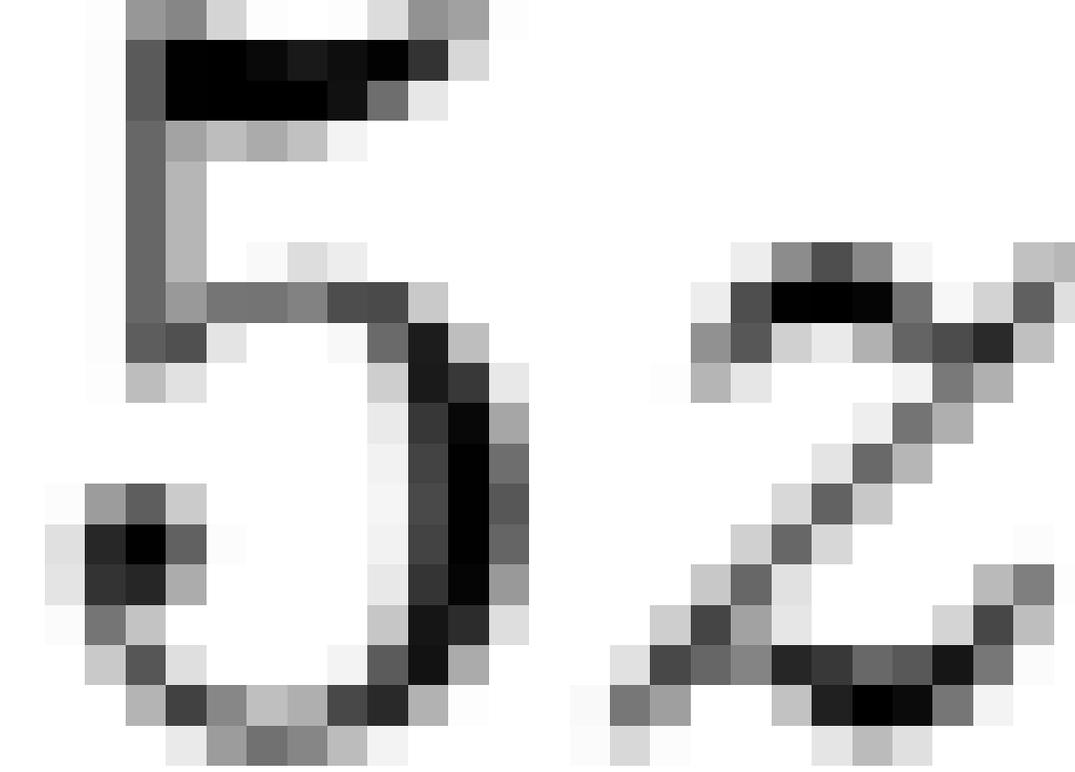
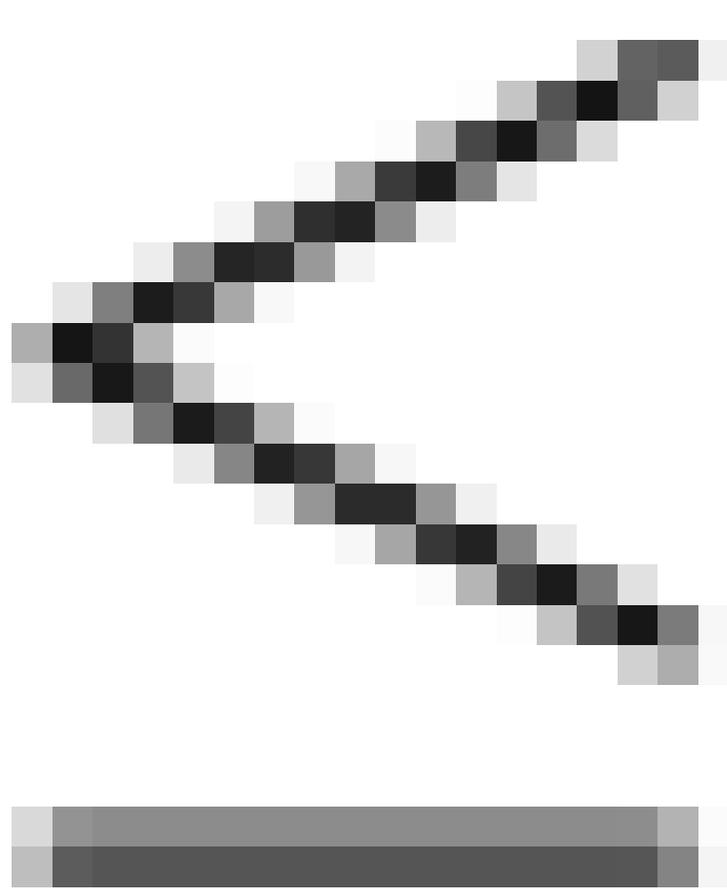
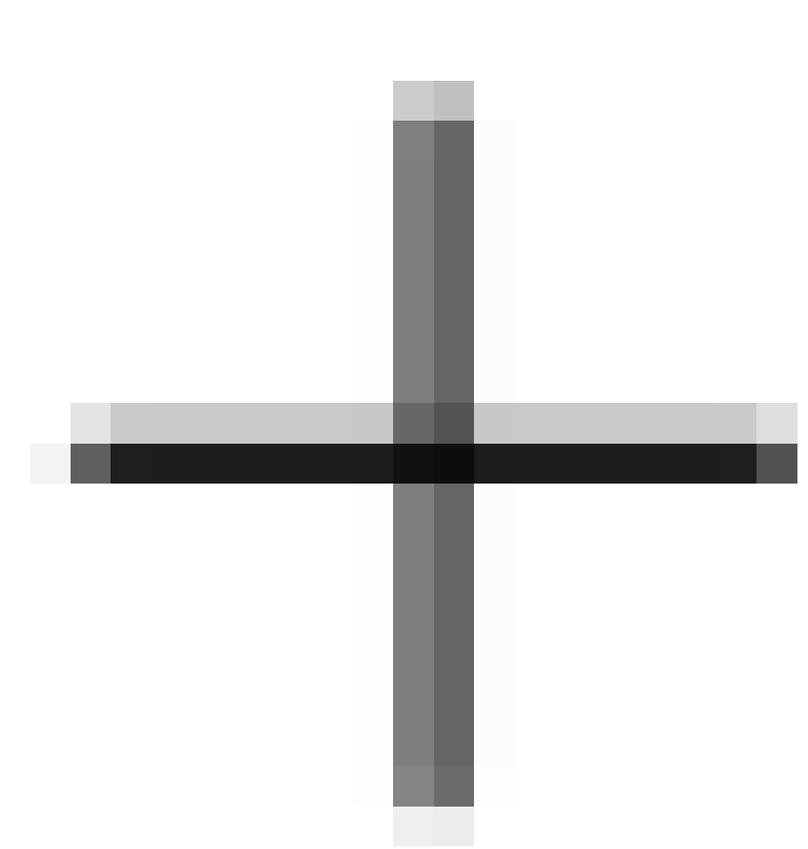
www.100years.org.uk

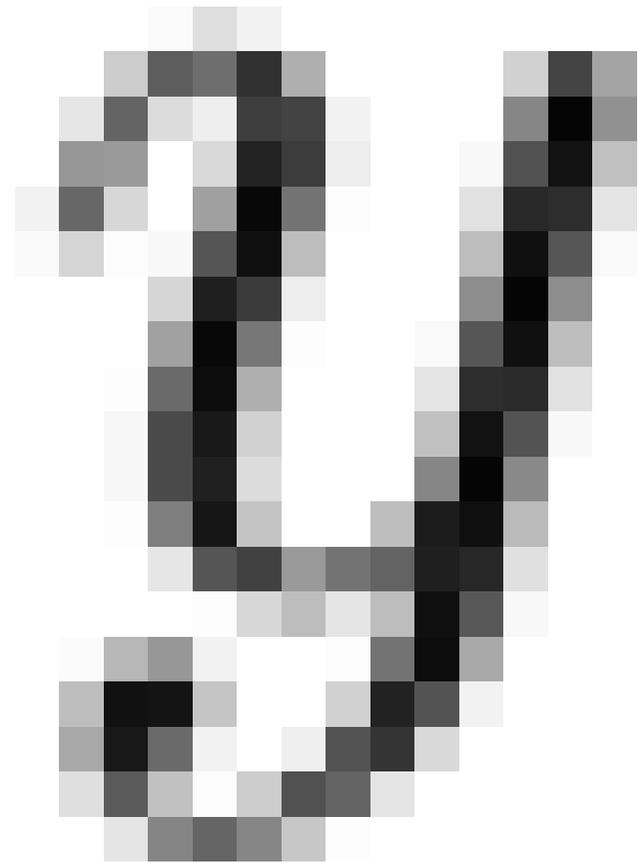
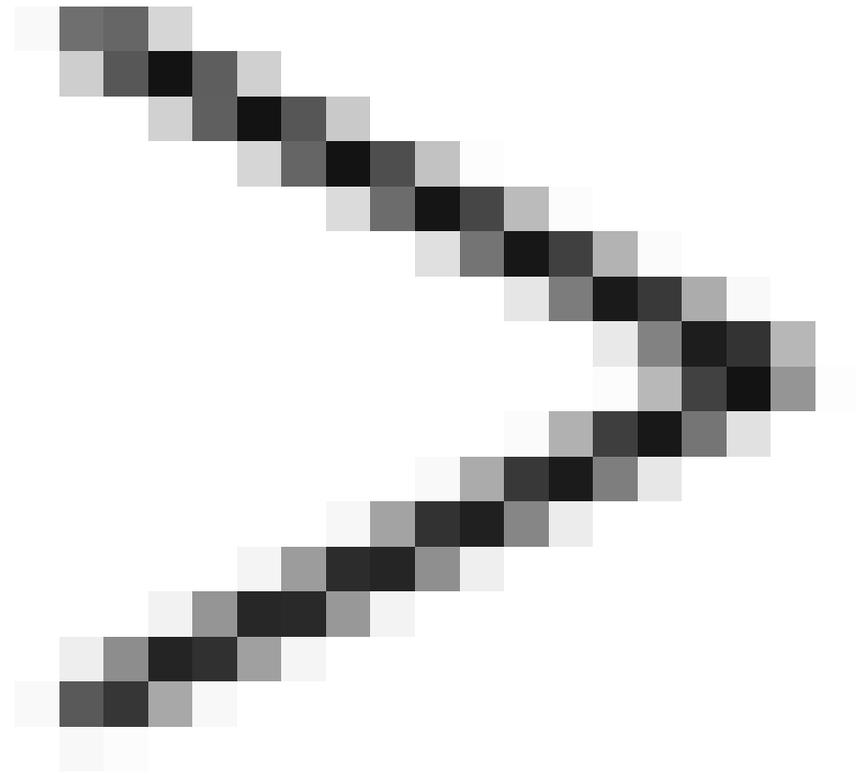
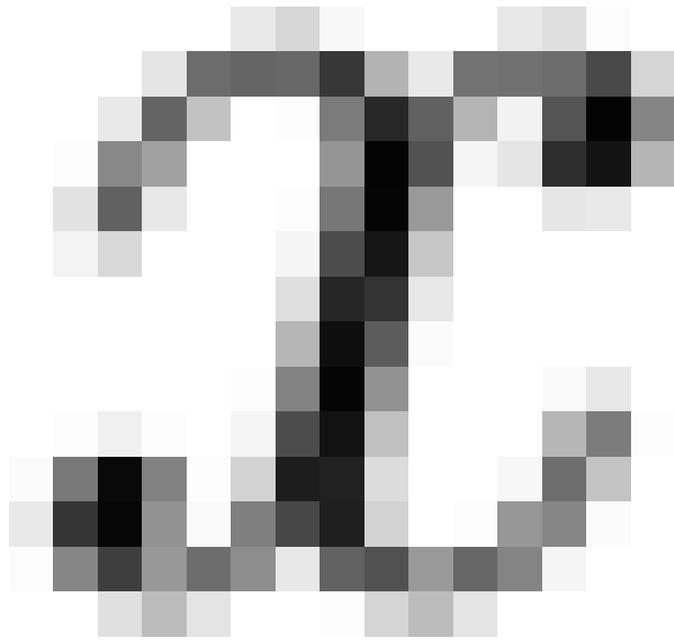
$$x \log(x) = \log(x) x$$

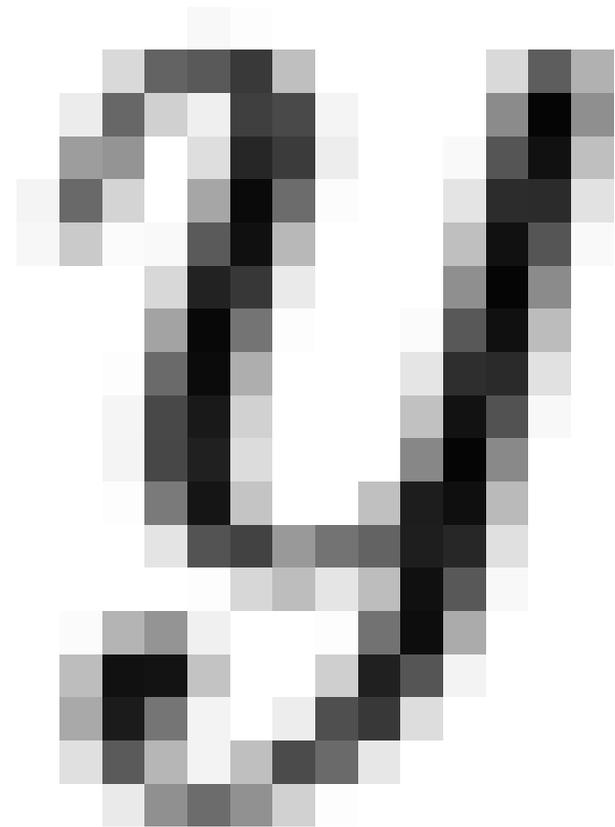
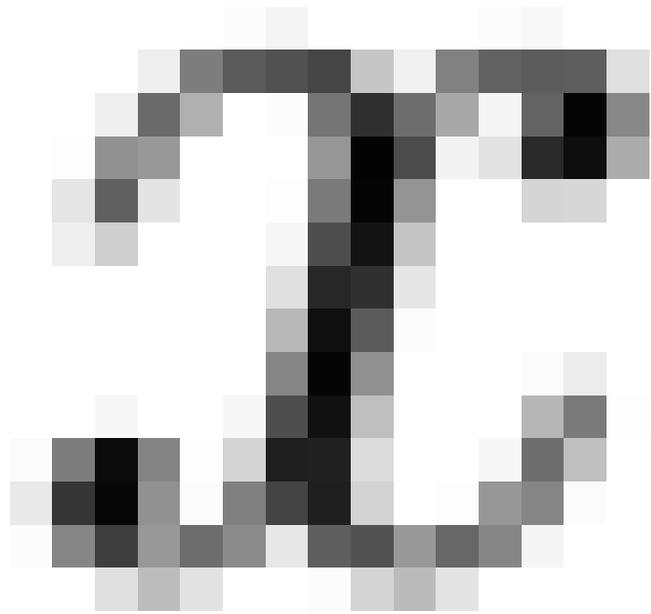
www.gilispix.com

$x \left[\frac{d}{dx} \right] x = x \left[\frac{d}{dx} \right] x$

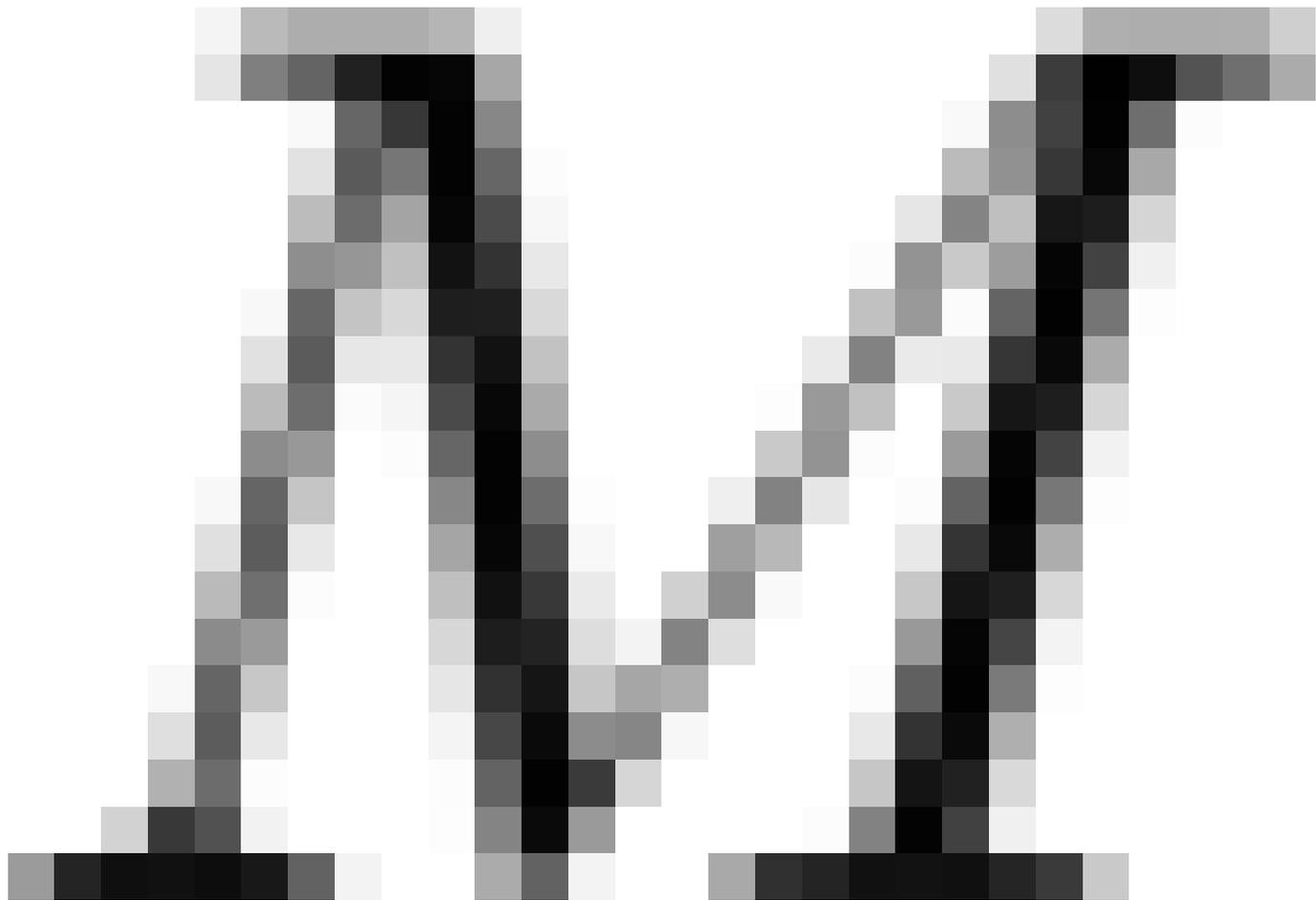
$x \left[\frac{1}{x} \right] = \frac{1}{x}$











322

+

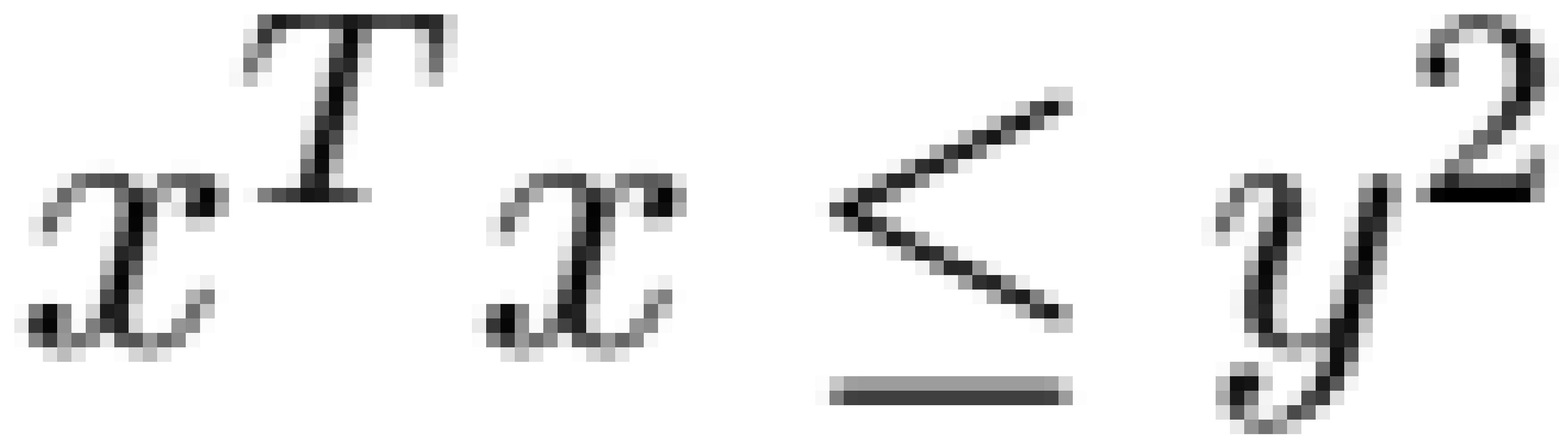
422

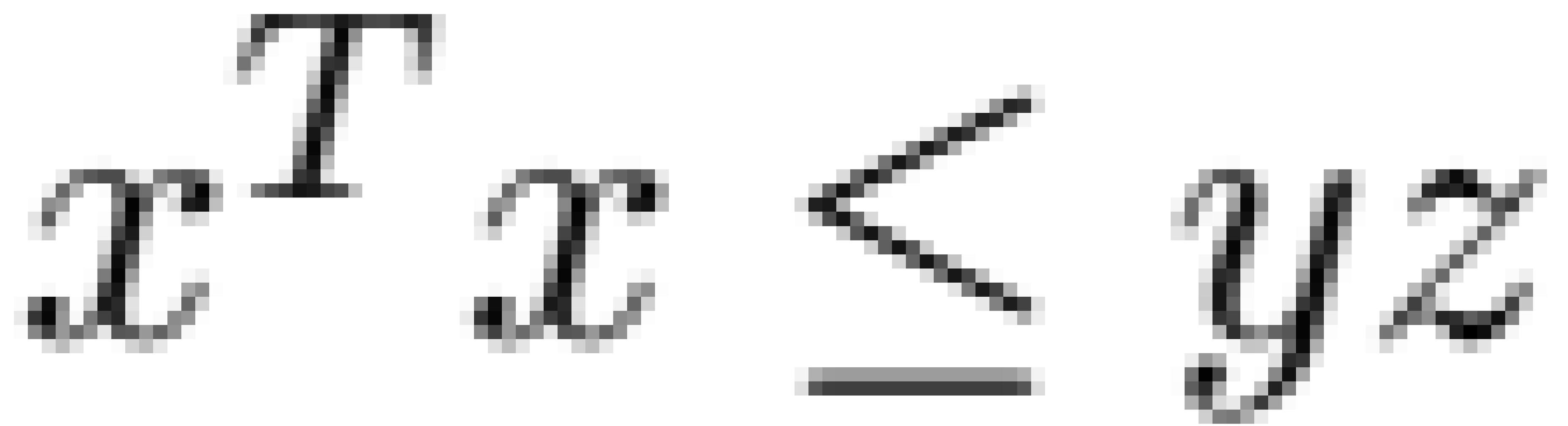
+

522

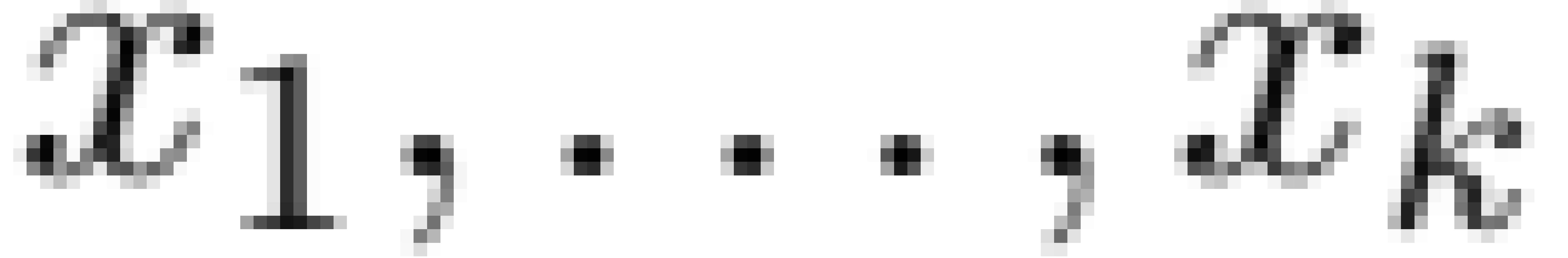
622

722



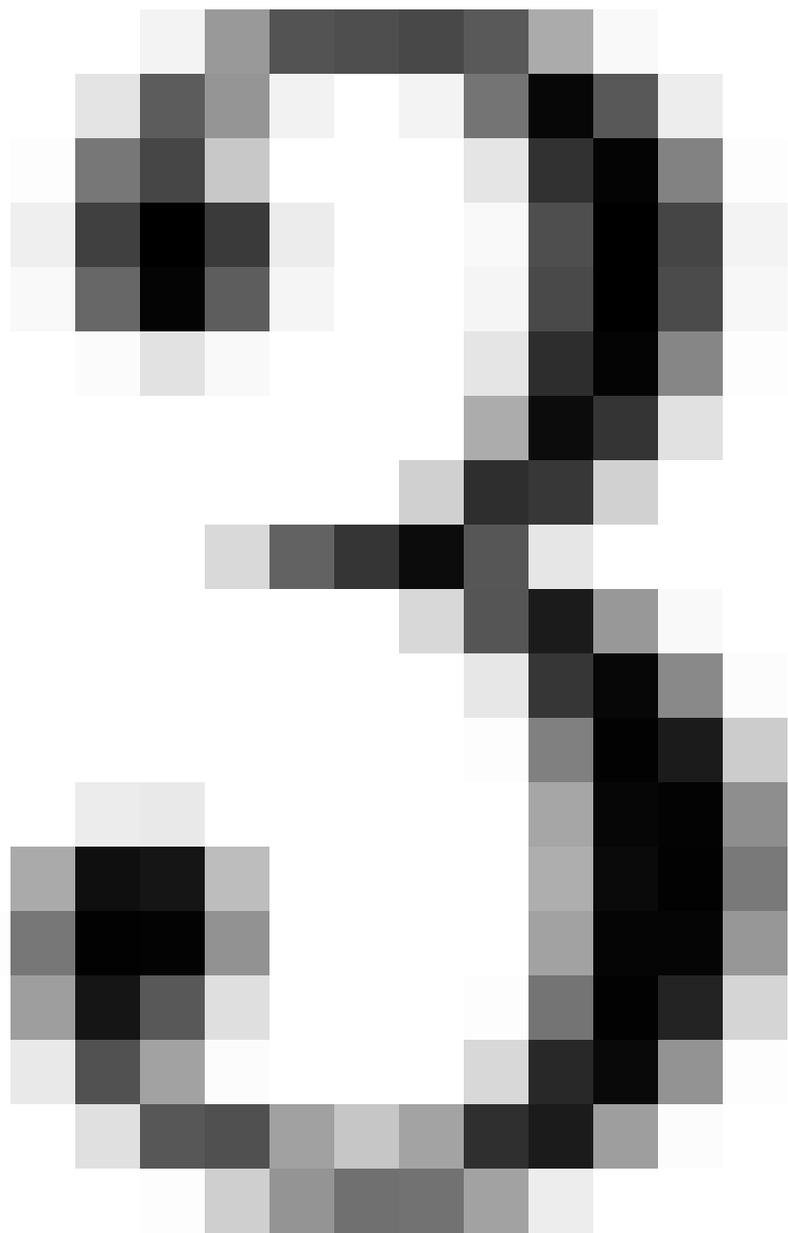


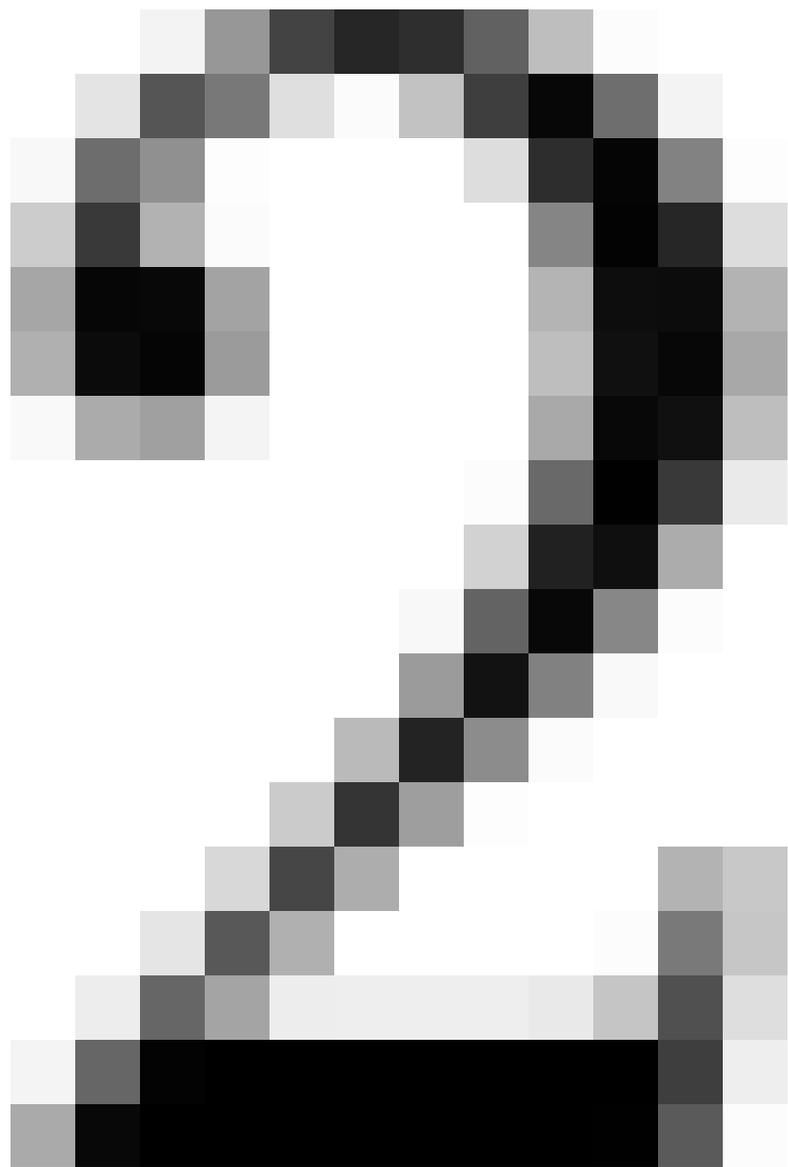


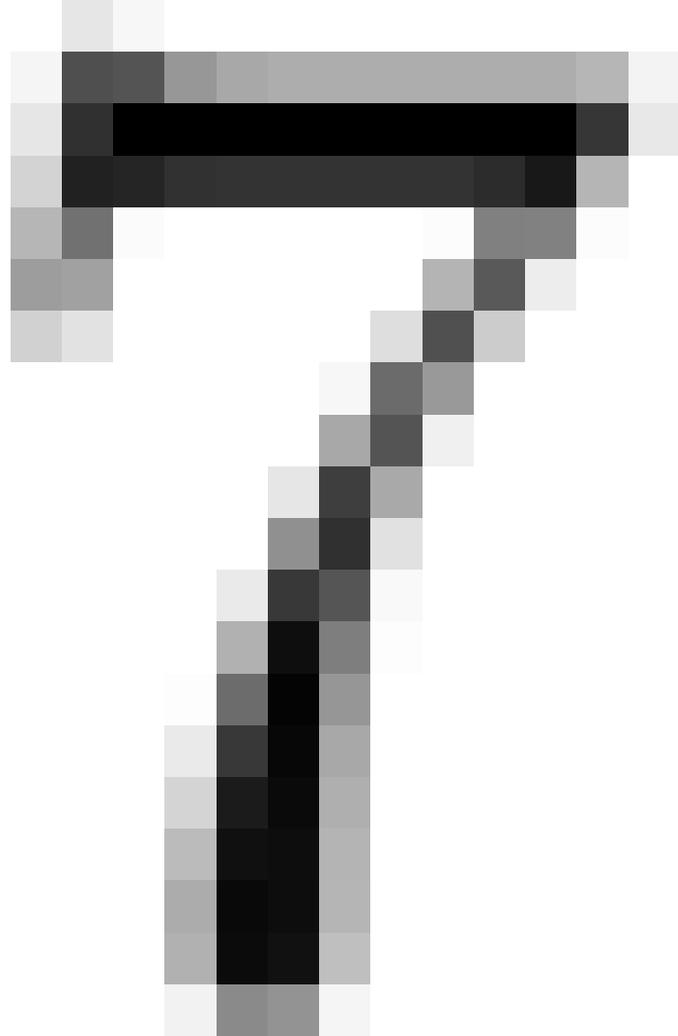
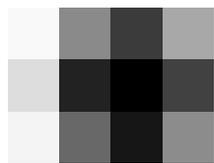
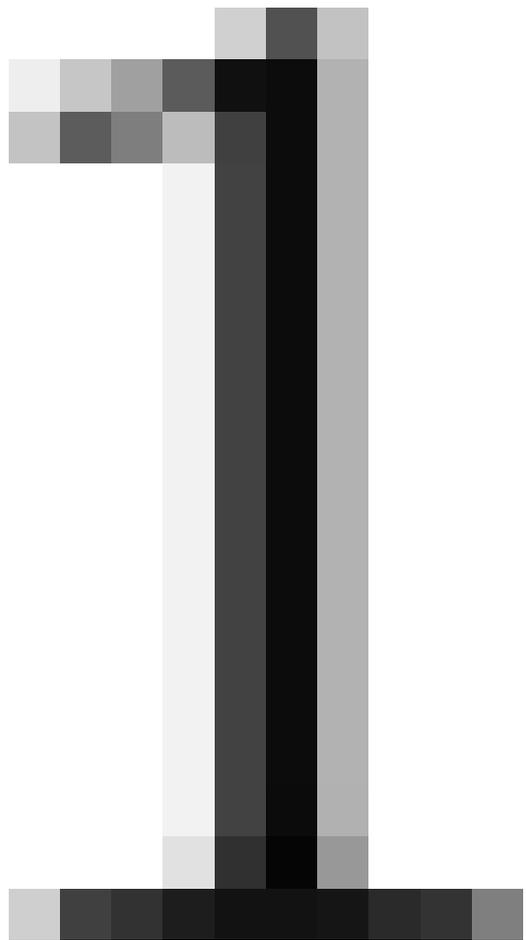


1931-1932-1933-1934-1935-1936-1937-1938-1939-1940

THE
WORLD'S
GREATEST
LITERATURE
CLASSICS
LIBRARY



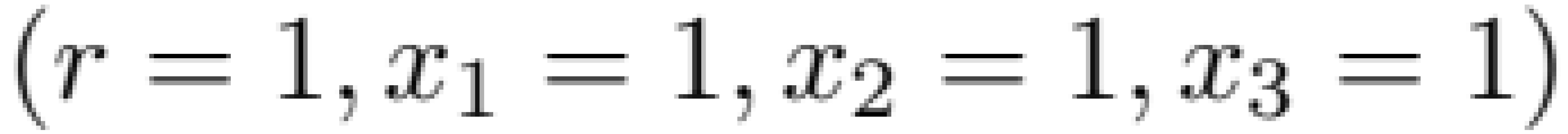




1. *Wissenschaft* ist die systematische Erforschung der Naturgesetze der Welt.

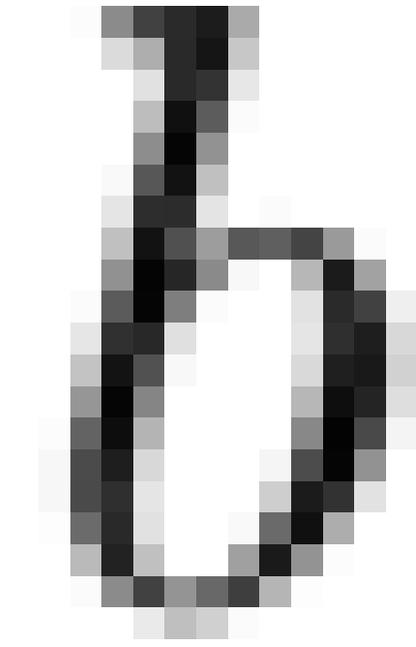
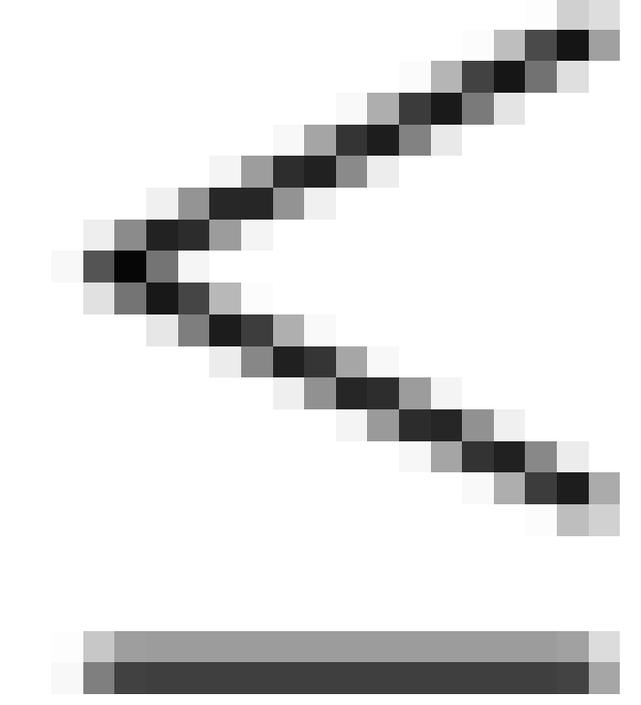
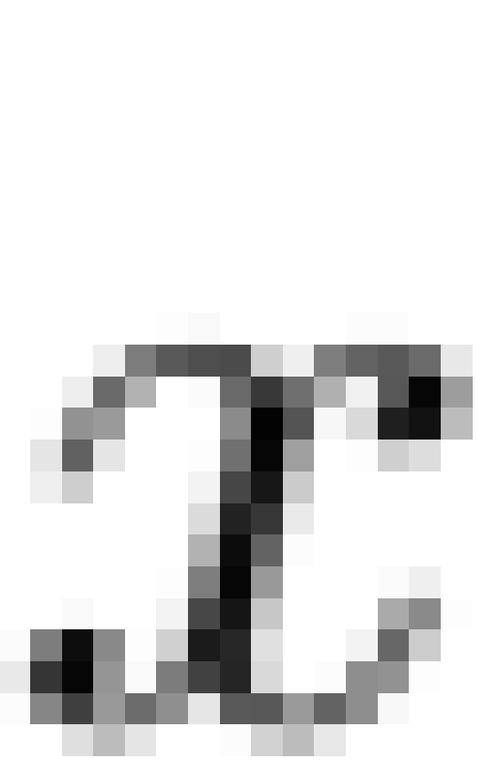
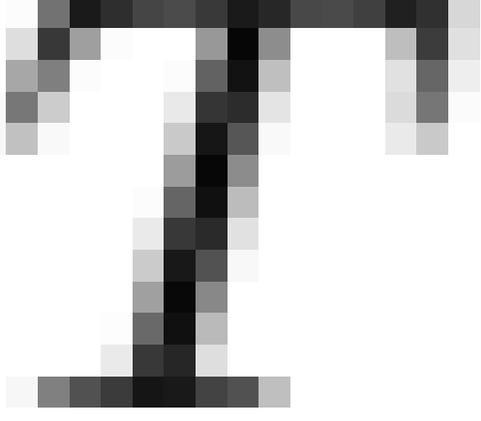
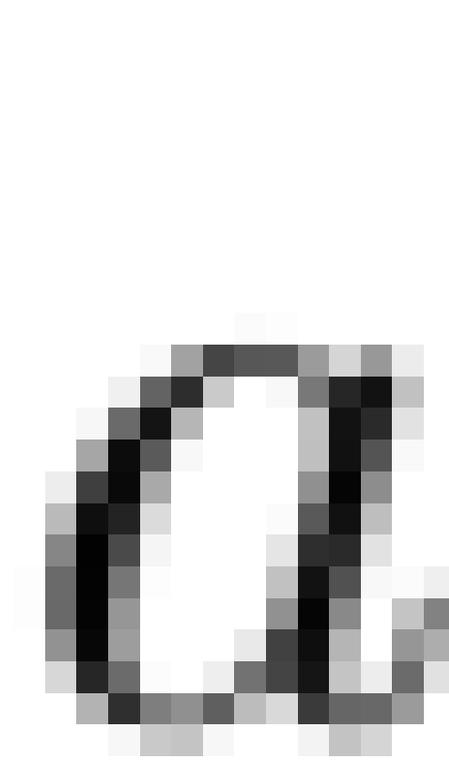
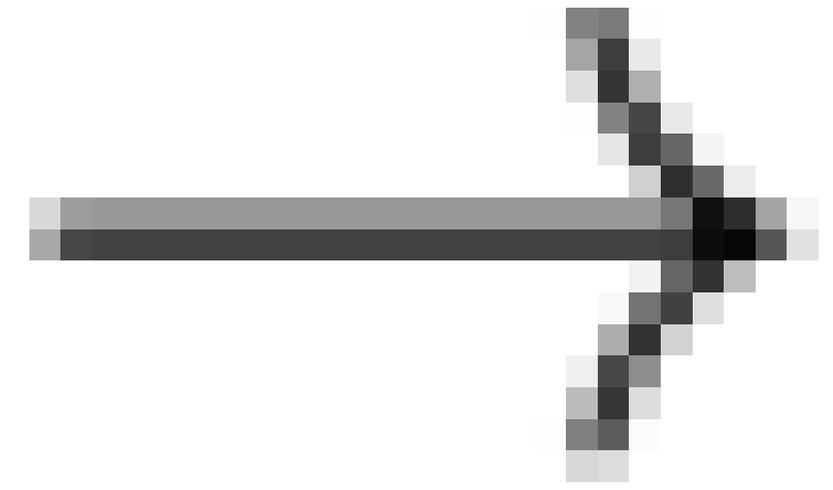
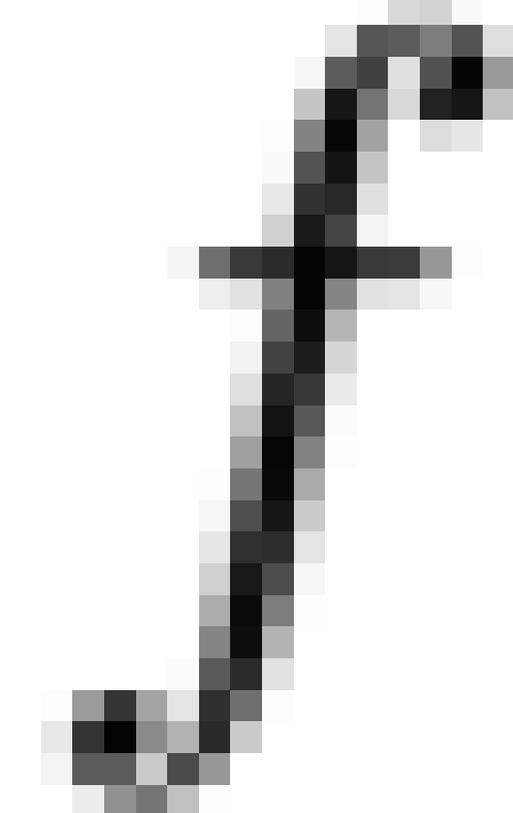
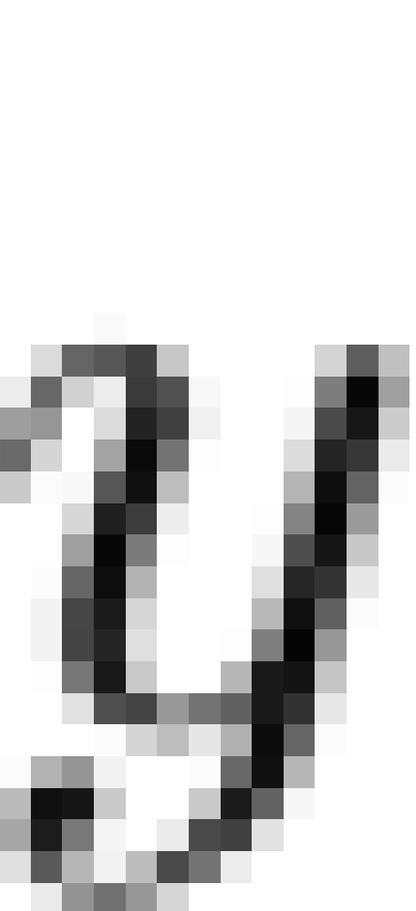


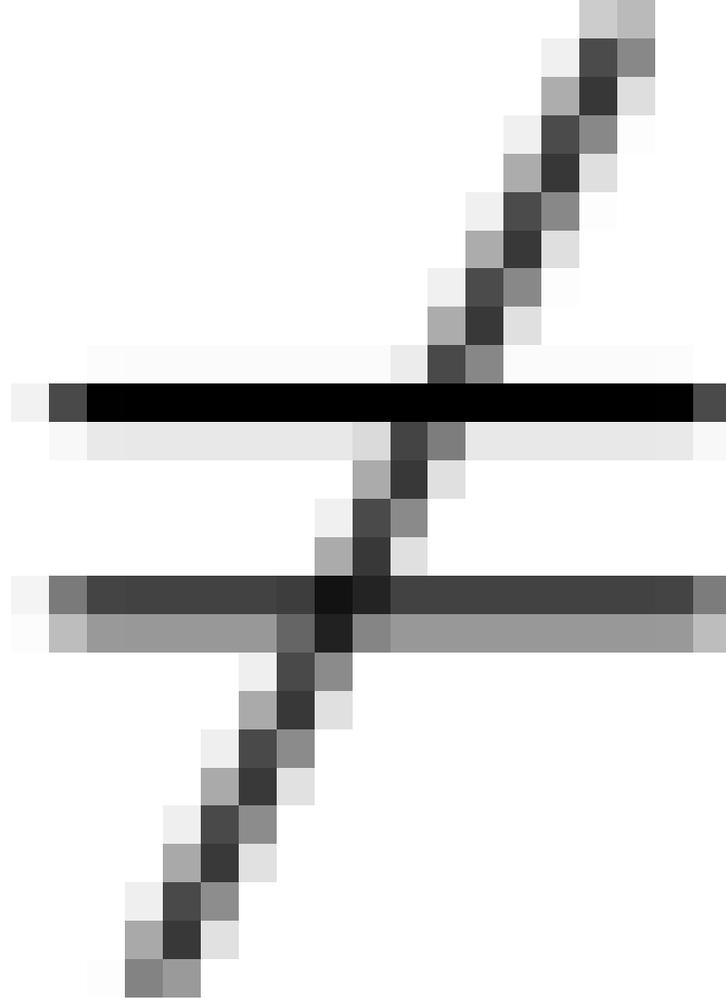
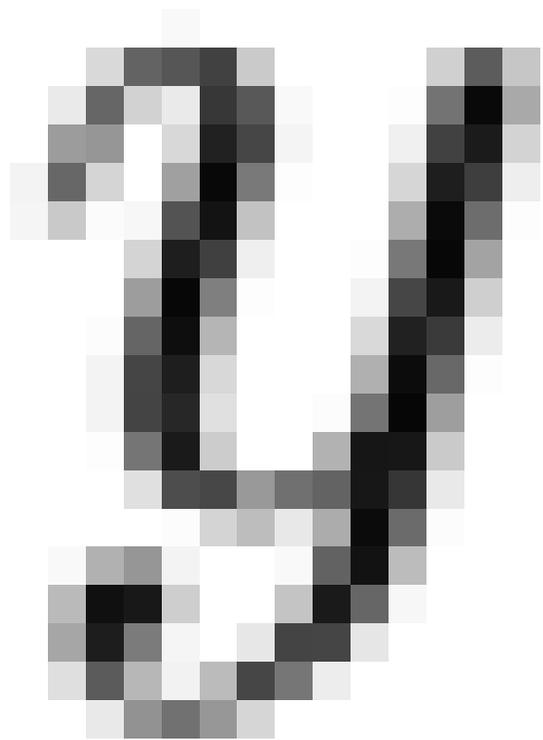
1 = 2019.10.10

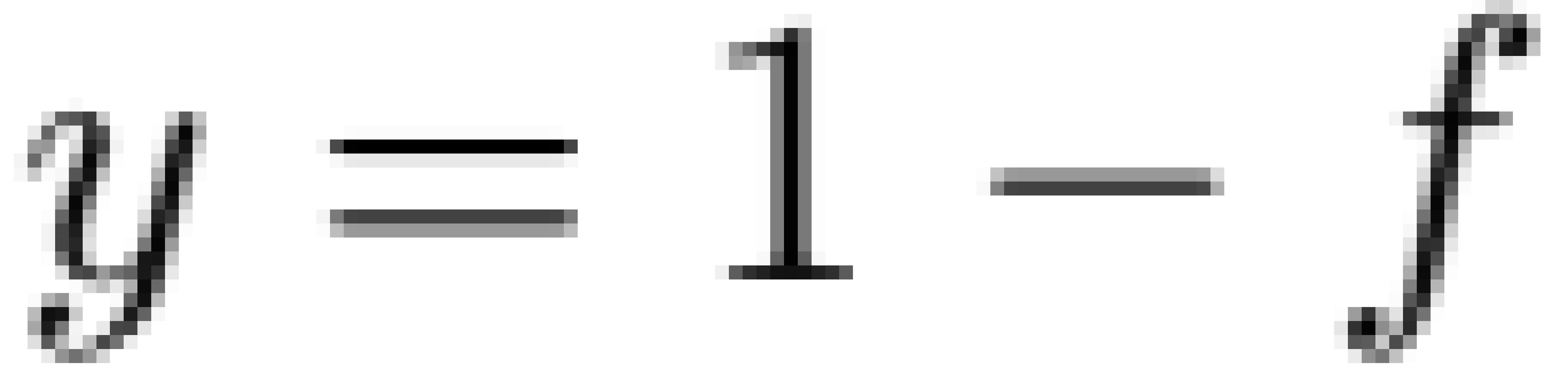


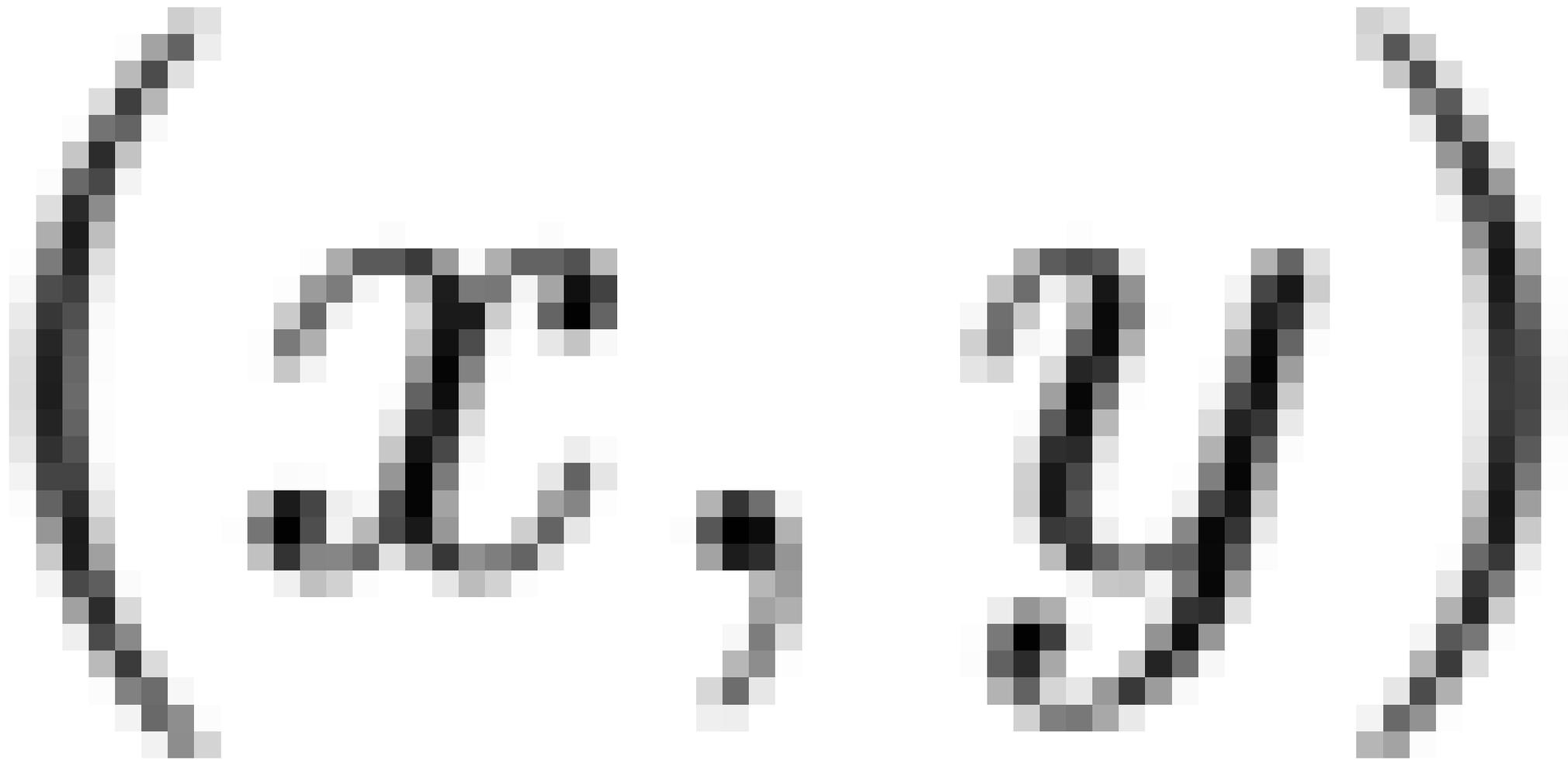
1991-1992

1991-1992









www.123.com

$$r = x_j + s_j \quad \text{for all } j = 1, \dots, k$$

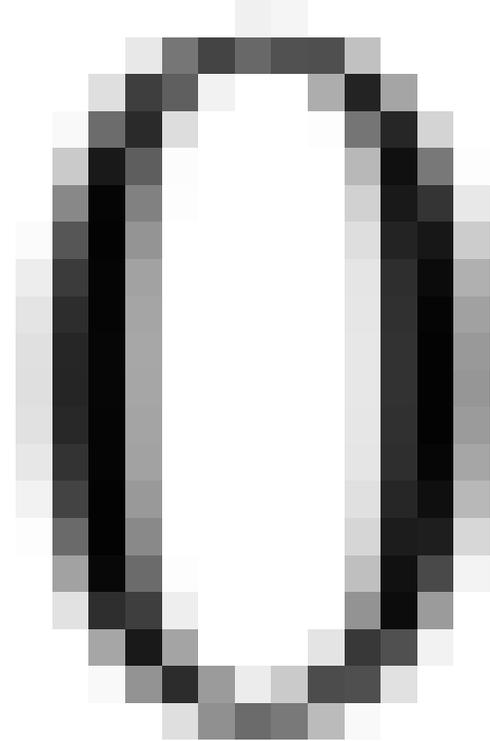
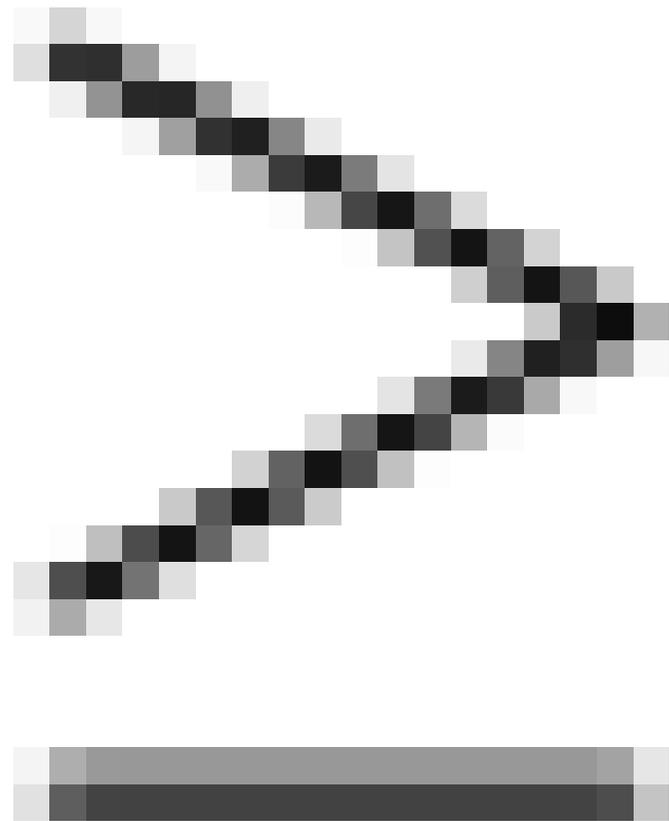
$$r = c + s_{k+1}$$

$$z_1 + \dots + z_{k+1} = 1$$

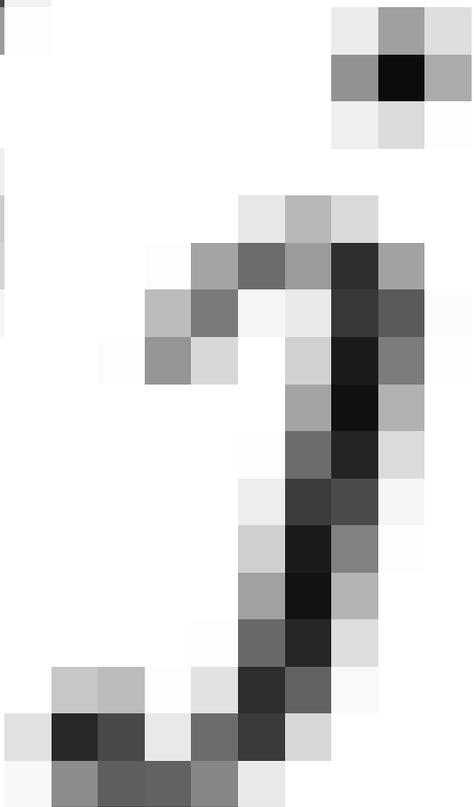
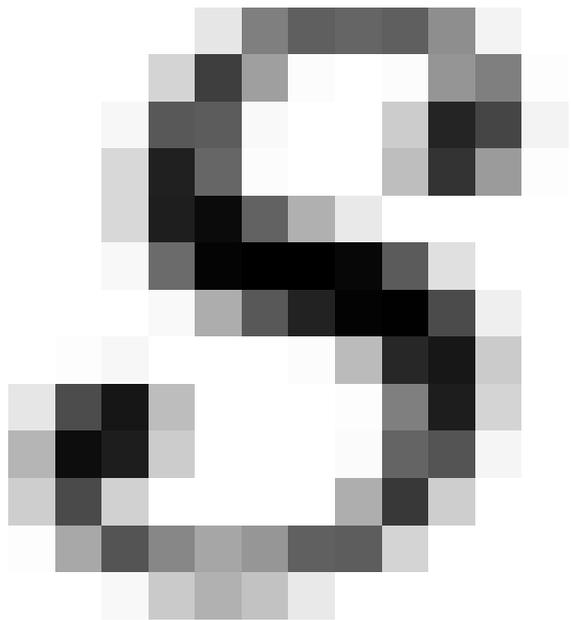
$$SOS1(s_j, z_j) \quad \text{for all } j = 1, \dots, k + 1$$

$$s_j \geq 0 \quad \text{for all } j = 1, \dots, k + 1$$

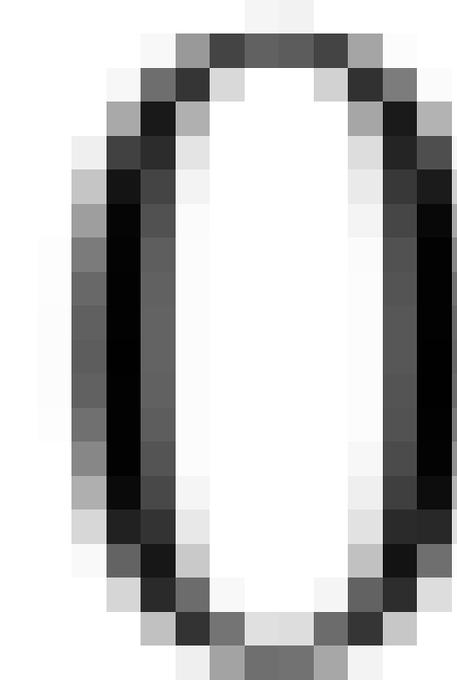
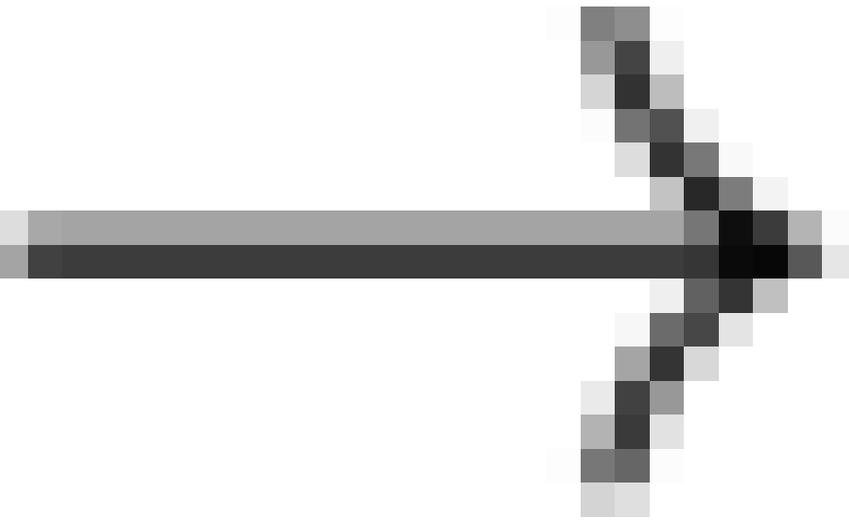
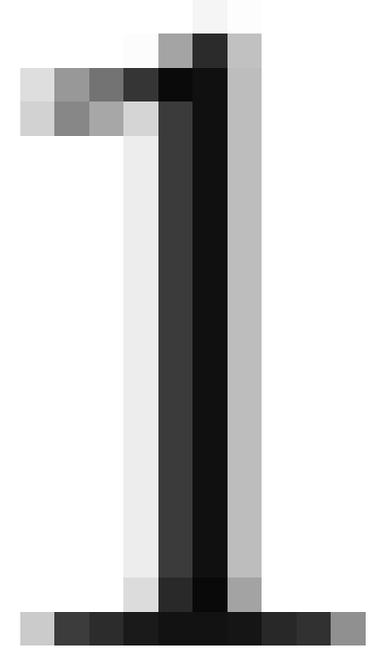
$$z_j \in \{0, 1\} \quad \text{for all } j = 1, \dots, k + 1$$

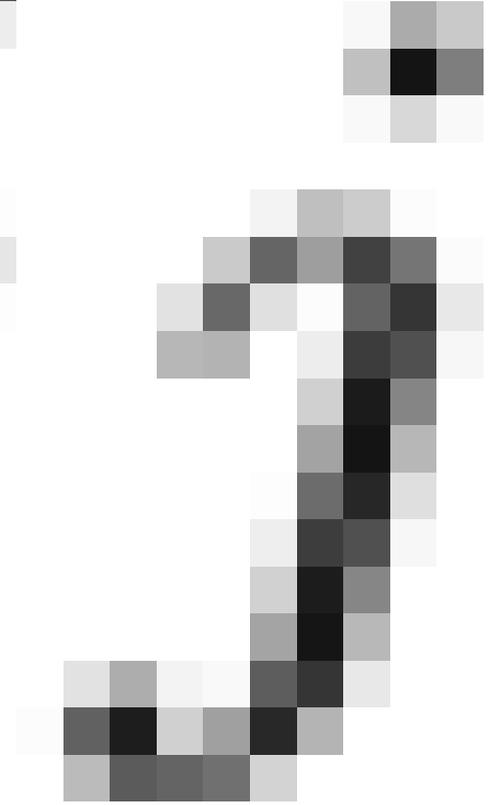
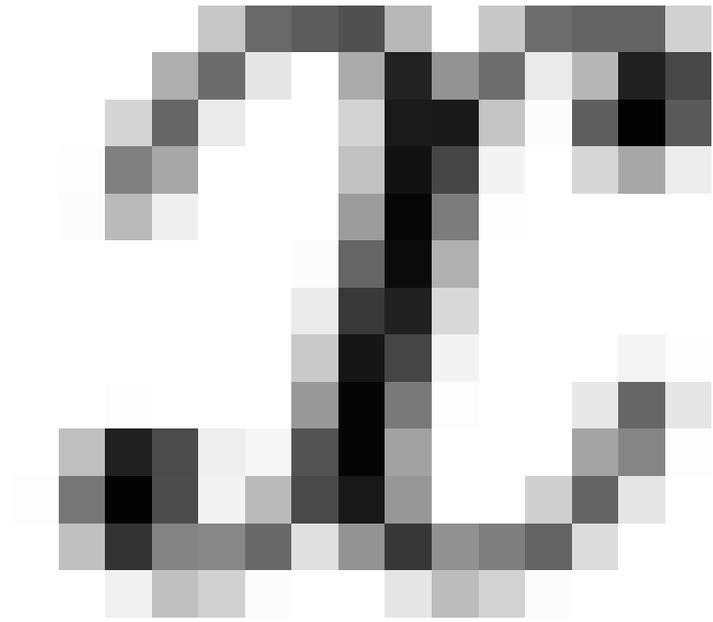
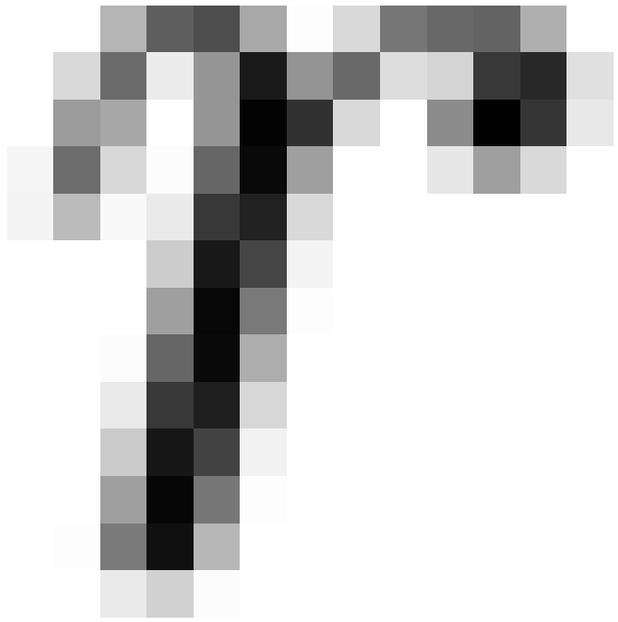


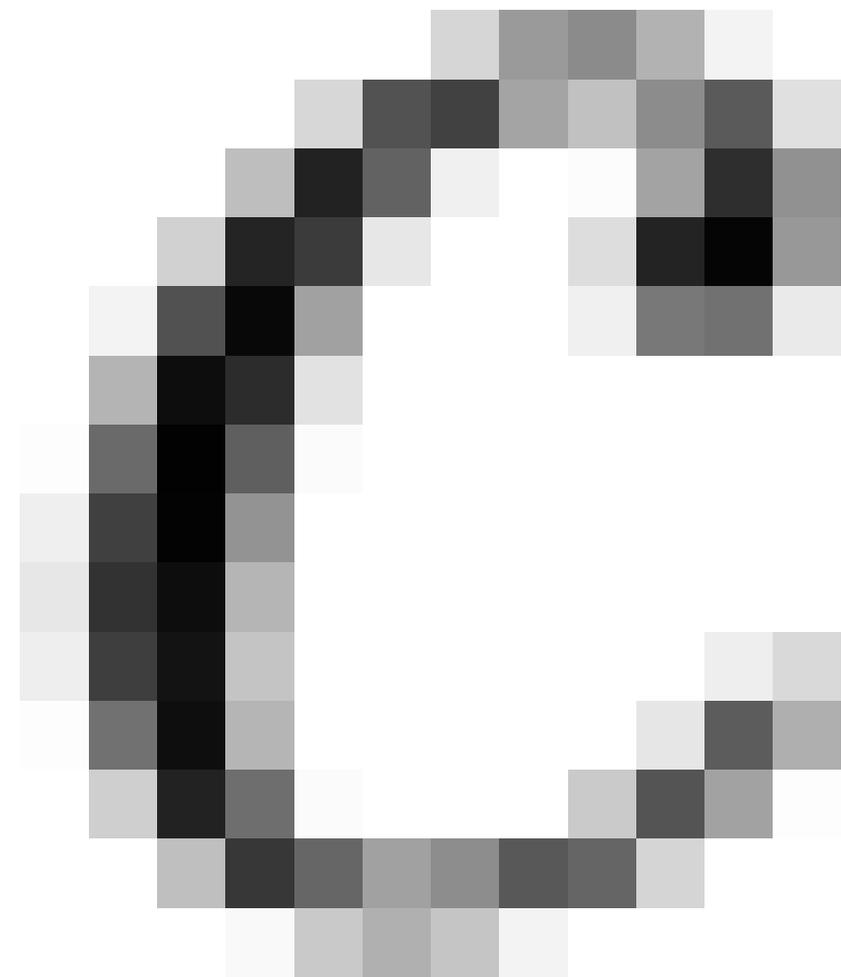
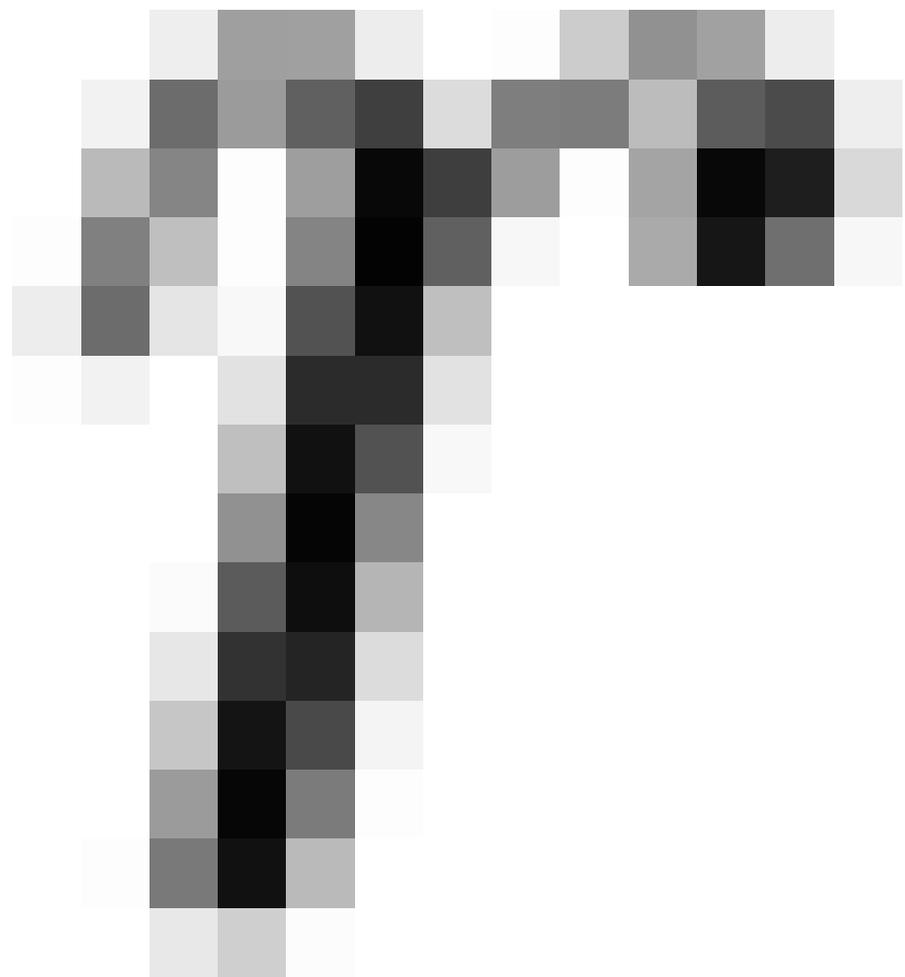
1901







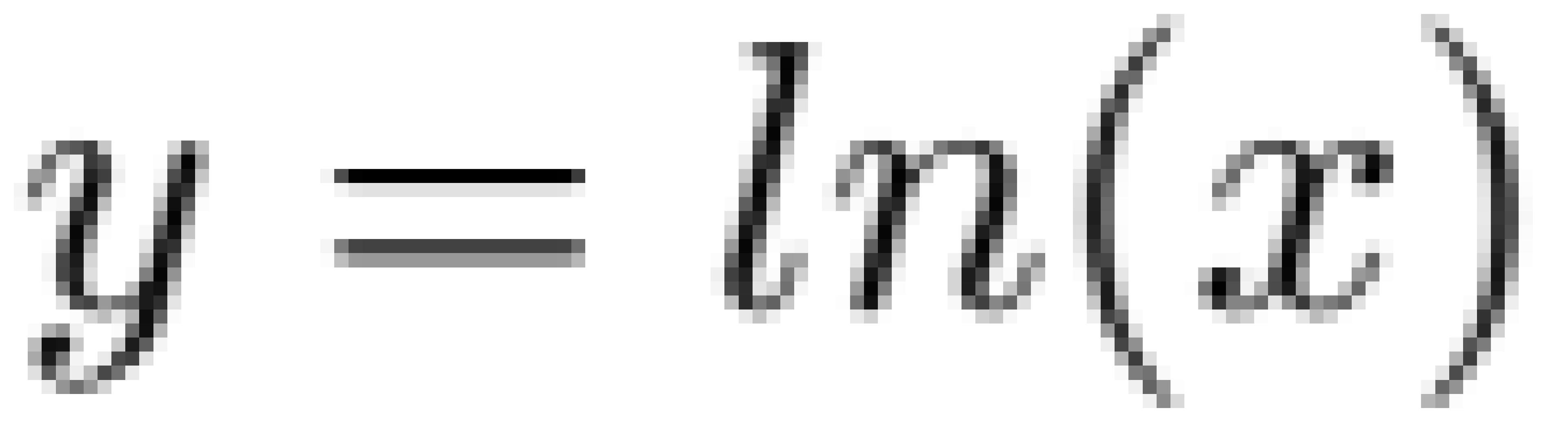


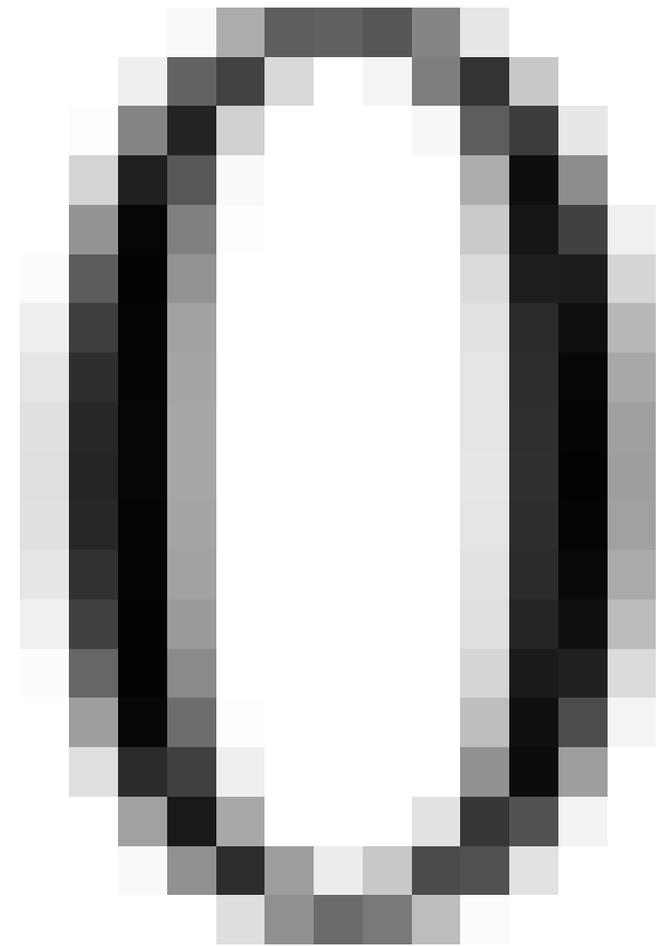
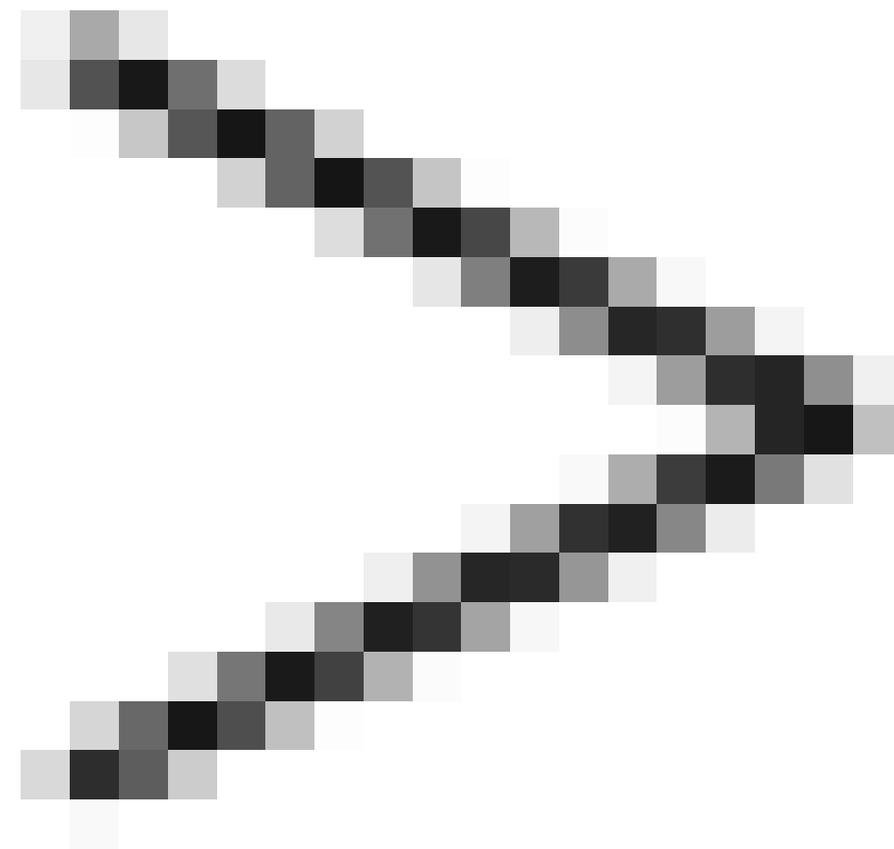
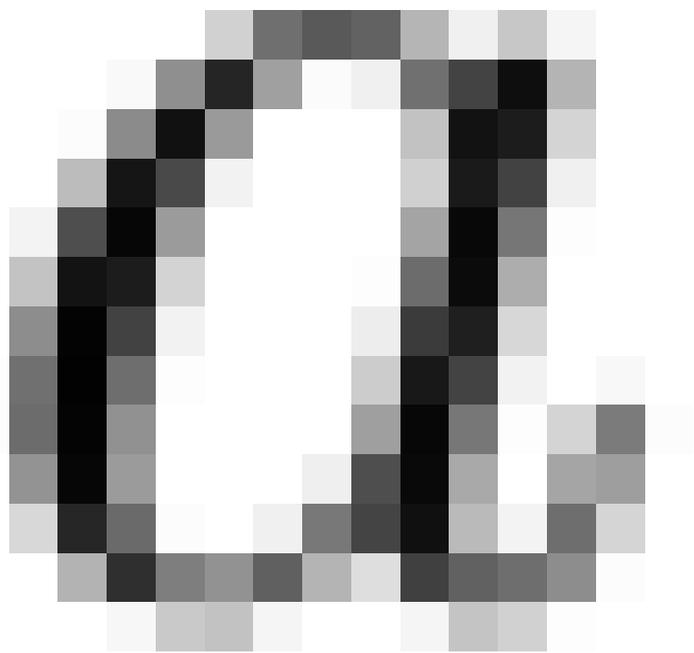


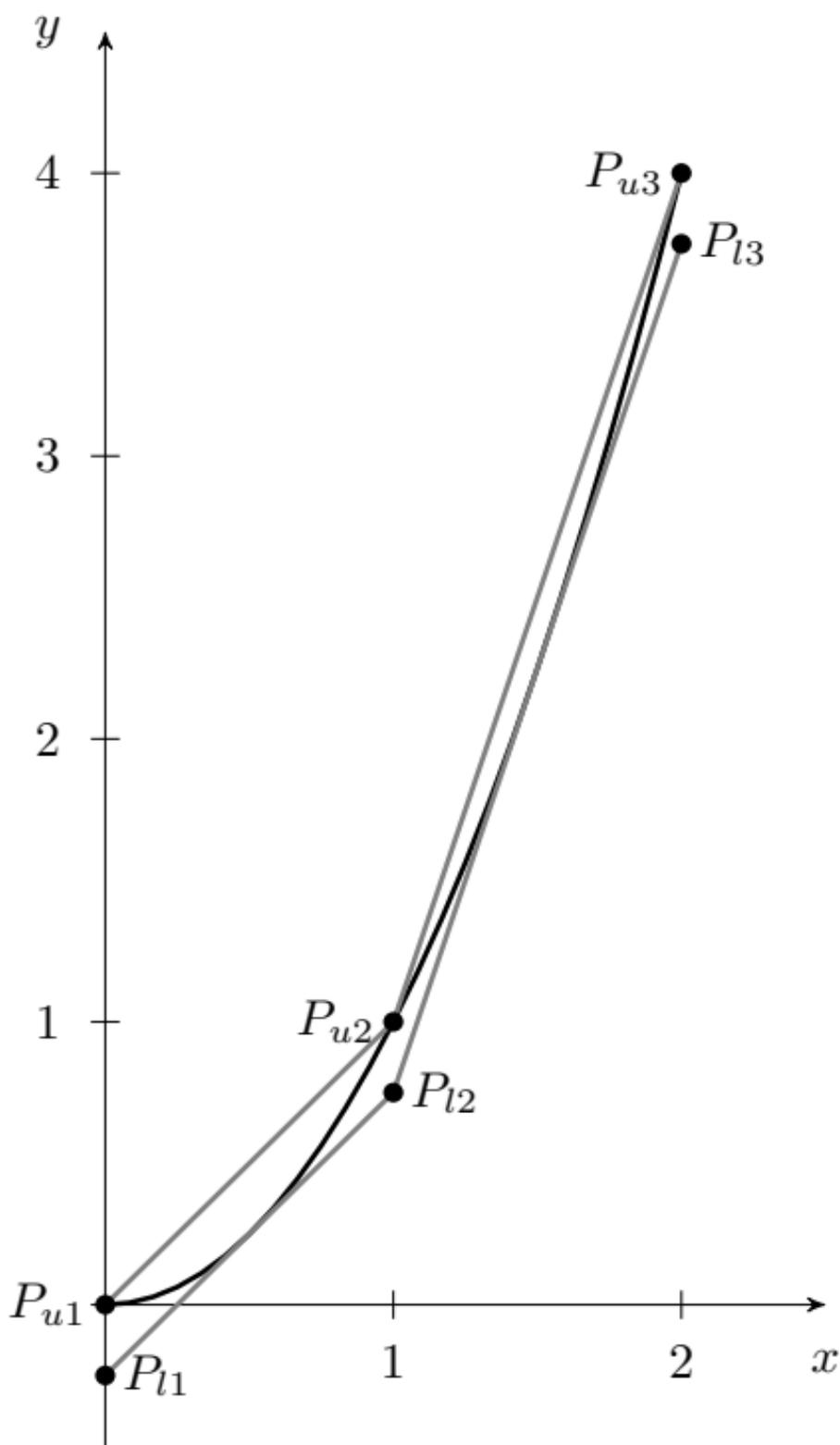
$r \geq x_j$ for all $j = 1, \dots, k$

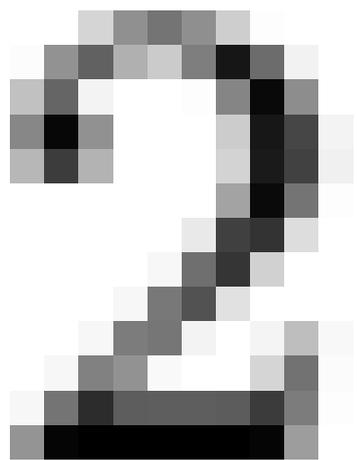
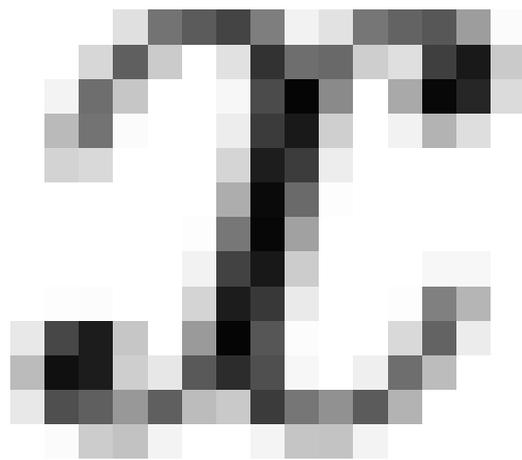
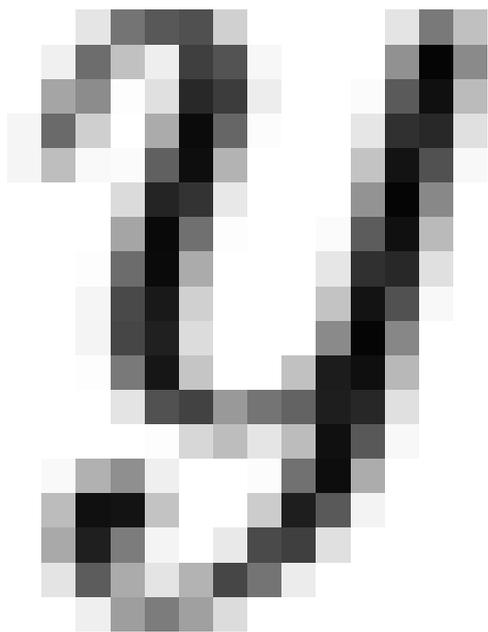
$r \geq c$

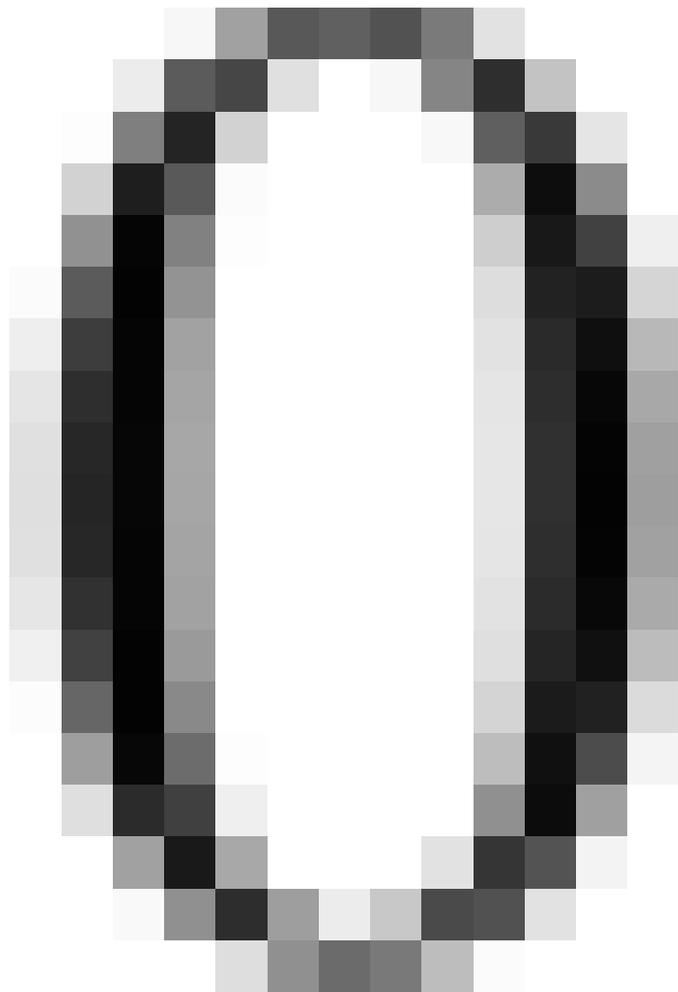
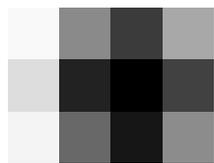
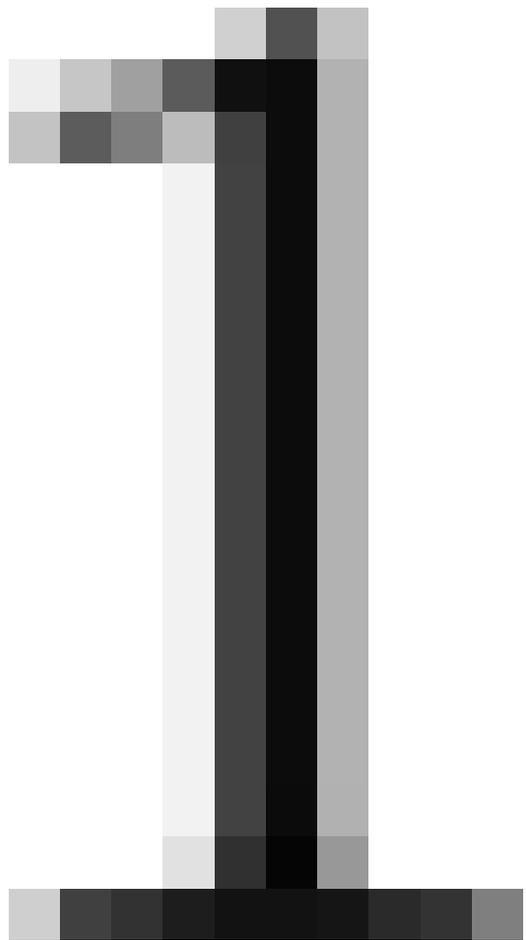
$2 = 202 + 2 + 1$
 $2 = 212 + 2 + 1$
 $2 = 222 + 2 + 1$
 $2 = 232 + 2 + 1$
 $2 = 242 + 2 + 1$
 $2 = 252 + 2 + 1$
 $2 = 262 + 2 + 1$
 $2 = 272 + 2 + 1$
 $2 = 282 + 2 + 1$
 $2 = 292 + 2 + 1$
 $2 = 302 + 2 + 1$
 $2 = 312 + 2 + 1$
 $2 = 322 + 2 + 1$
 $2 = 332 + 2 + 1$
 $2 = 342 + 2 + 1$
 $2 = 352 + 2 + 1$
 $2 = 362 + 2 + 1$
 $2 = 372 + 2 + 1$
 $2 = 382 + 2 + 1$
 $2 = 392 + 2 + 1$
 $2 = 402 + 2 + 1$
 $2 = 412 + 2 + 1$
 $2 = 422 + 2 + 1$
 $2 = 432 + 2 + 1$
 $2 = 442 + 2 + 1$
 $2 = 452 + 2 + 1$
 $2 = 462 + 2 + 1$
 $2 = 472 + 2 + 1$
 $2 = 482 + 2 + 1$
 $2 = 492 + 2 + 1$
 $2 = 502 + 2 + 1$
 $2 = 512 + 2 + 1$
 $2 = 522 + 2 + 1$
 $2 = 532 + 2 + 1$
 $2 = 542 + 2 + 1$
 $2 = 552 + 2 + 1$
 $2 = 562 + 2 + 1$
 $2 = 572 + 2 + 1$
 $2 = 582 + 2 + 1$
 $2 = 592 + 2 + 1$
 $2 = 602 + 2 + 1$
 $2 = 612 + 2 + 1$
 $2 = 622 + 2 + 1$
 $2 = 632 + 2 + 1$
 $2 = 642 + 2 + 1$
 $2 = 652 + 2 + 1$
 $2 = 662 + 2 + 1$
 $2 = 672 + 2 + 1$
 $2 = 682 + 2 + 1$
 $2 = 692 + 2 + 1$
 $2 = 702 + 2 + 1$
 $2 = 712 + 2 + 1$
 $2 = 722 + 2 + 1$
 $2 = 732 + 2 + 1$
 $2 = 742 + 2 + 1$
 $2 = 752 + 2 + 1$
 $2 = 762 + 2 + 1$
 $2 = 772 + 2 + 1$
 $2 = 782 + 2 + 1$
 $2 = 792 + 2 + 1$
 $2 = 802 + 2 + 1$
 $2 = 812 + 2 + 1$
 $2 = 822 + 2 + 1$
 $2 = 832 + 2 + 1$
 $2 = 842 + 2 + 1$
 $2 = 852 + 2 + 1$
 $2 = 862 + 2 + 1$
 $2 = 872 + 2 + 1$
 $2 = 882 + 2 + 1$
 $2 = 892 + 2 + 1$
 $2 = 902 + 2 + 1$
 $2 = 912 + 2 + 1$
 $2 = 922 + 2 + 1$
 $2 = 932 + 2 + 1$
 $2 = 942 + 2 + 1$
 $2 = 952 + 2 + 1$
 $2 = 962 + 2 + 1$
 $2 = 972 + 2 + 1$
 $2 = 982 + 2 + 1$
 $2 = 992 + 2 + 1$





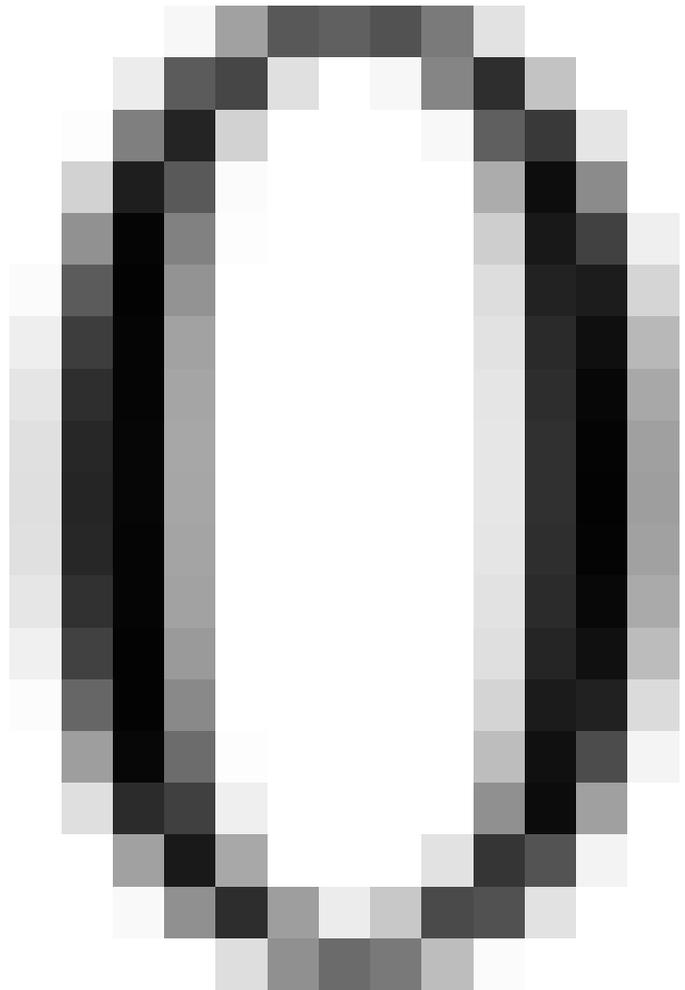
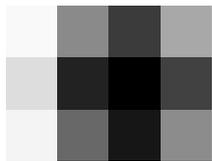
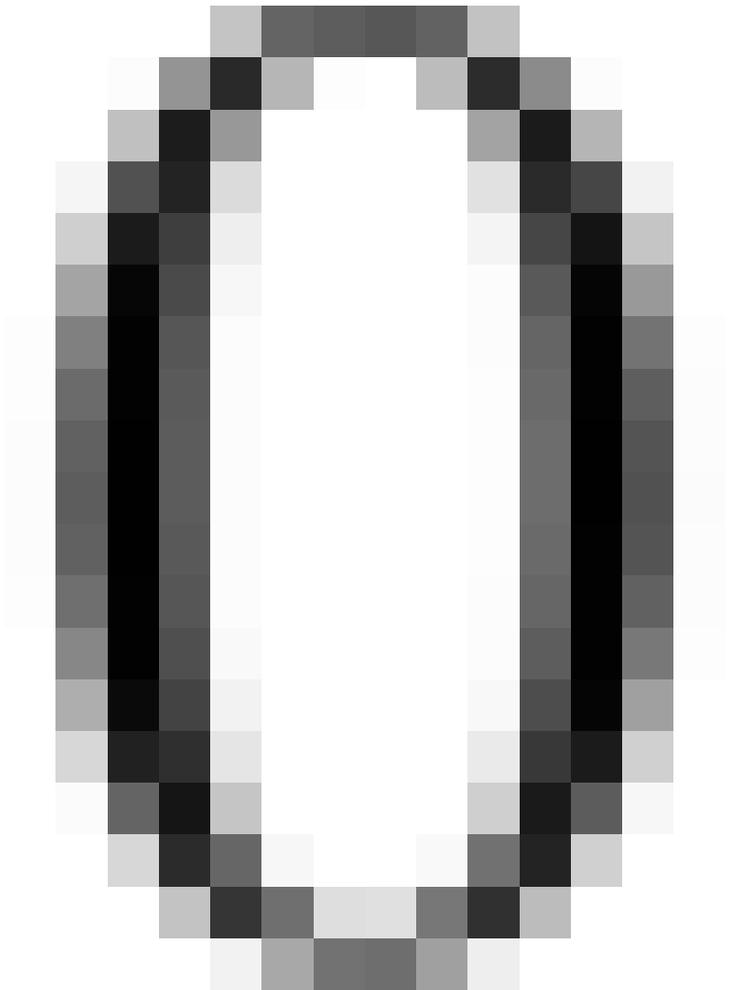


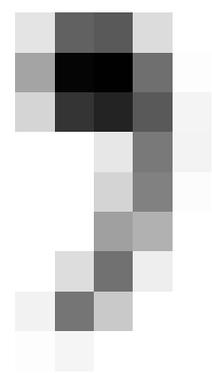
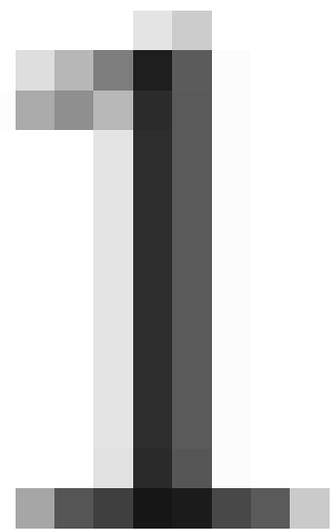
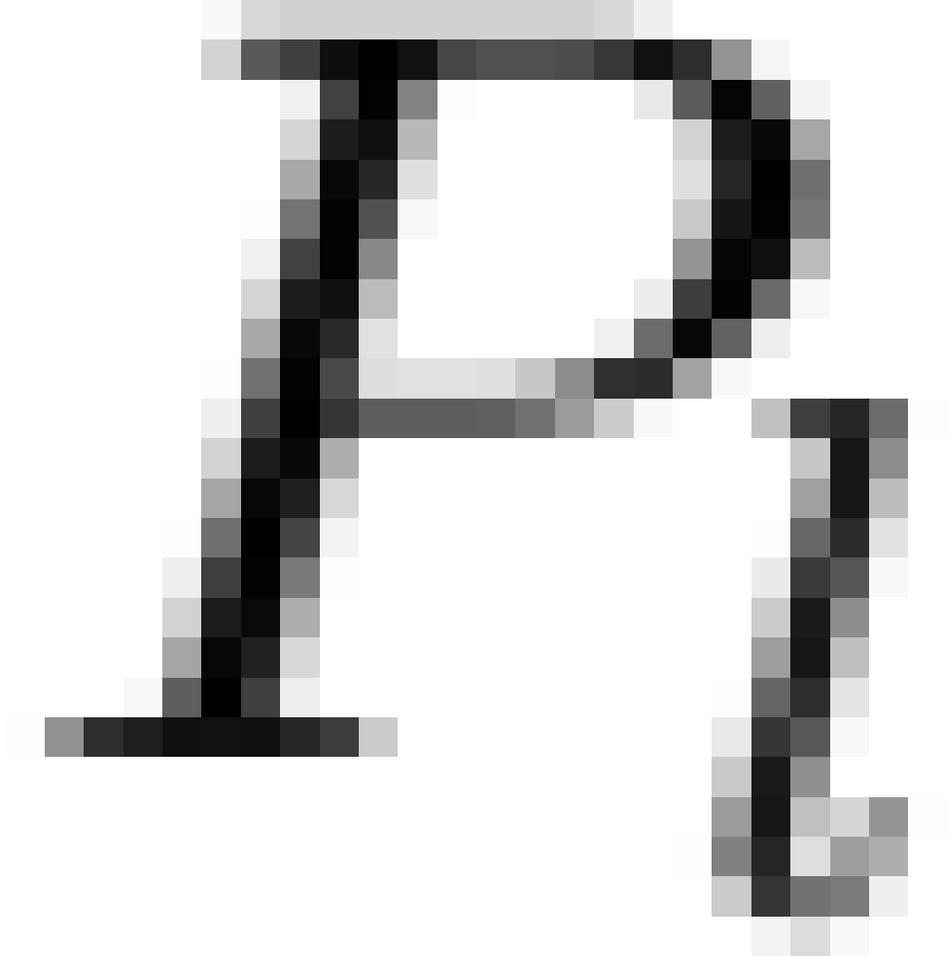




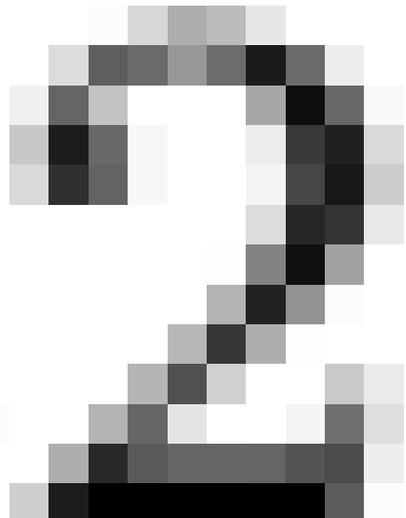
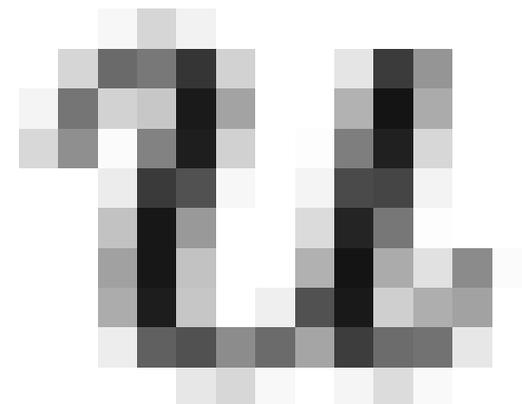
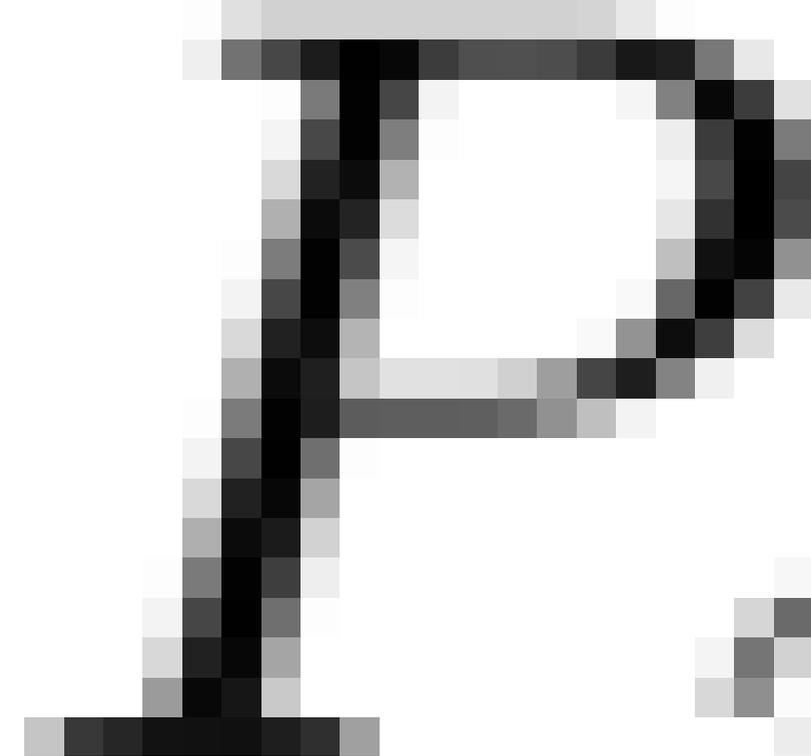
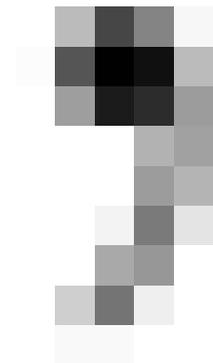
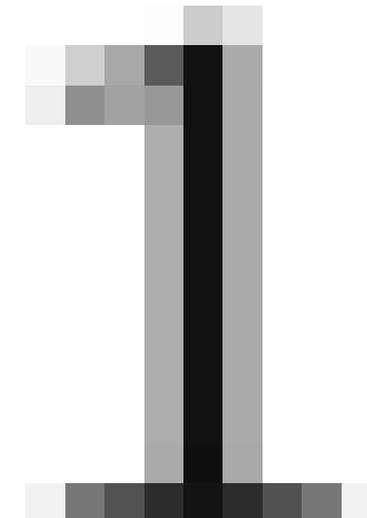
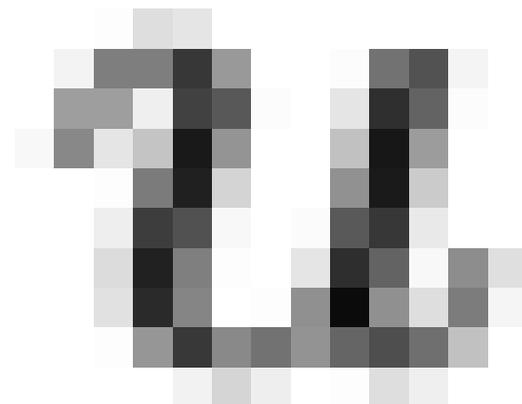
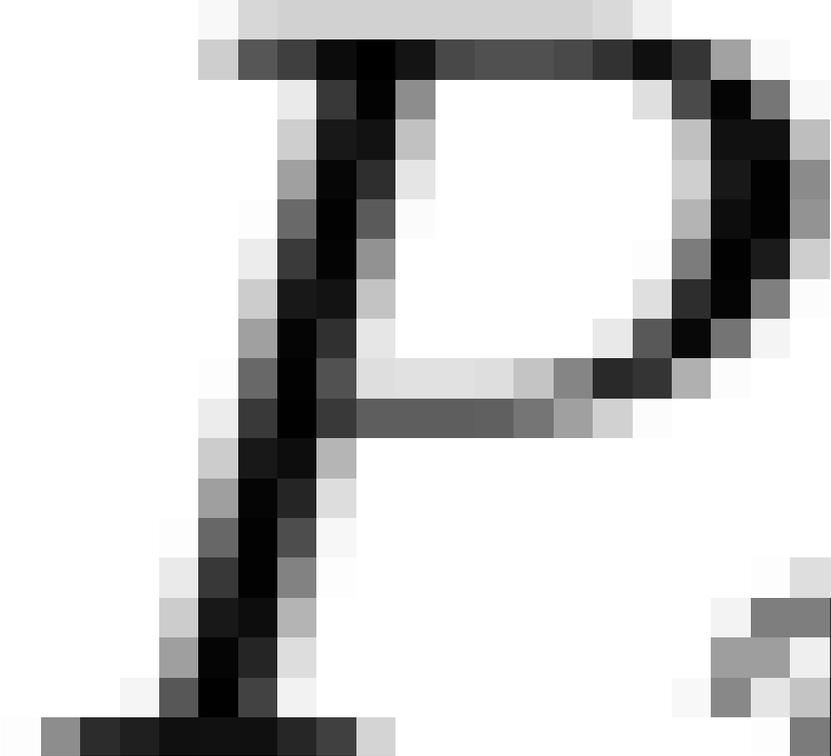


ARMY, 1025),
ARMY, 1075),
ARMY, 1275)



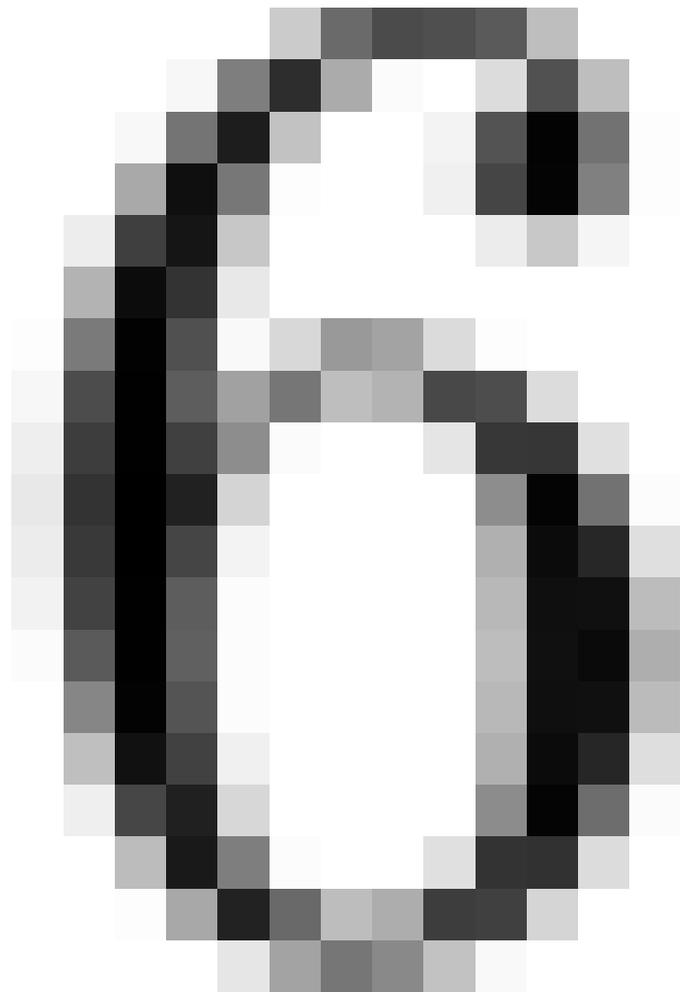
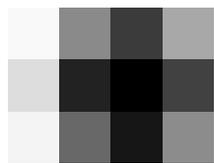
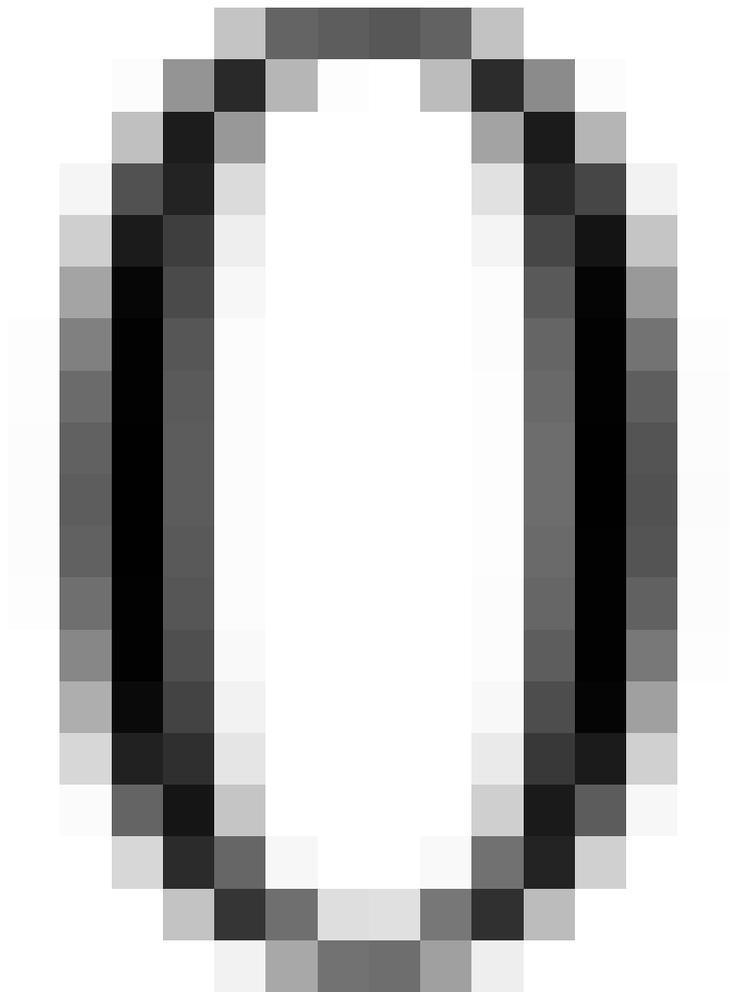


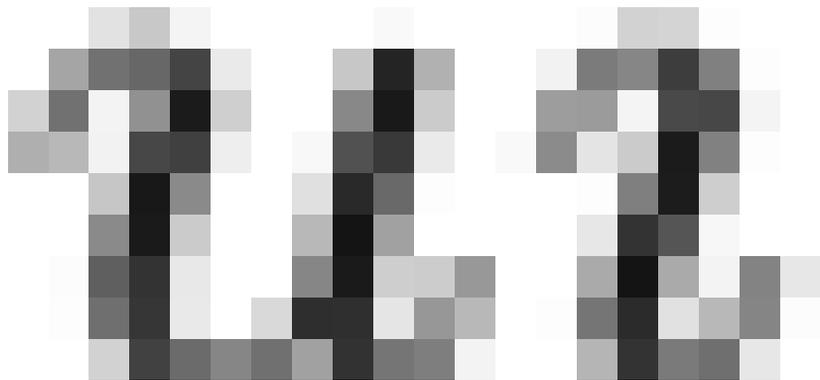
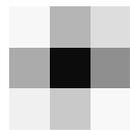
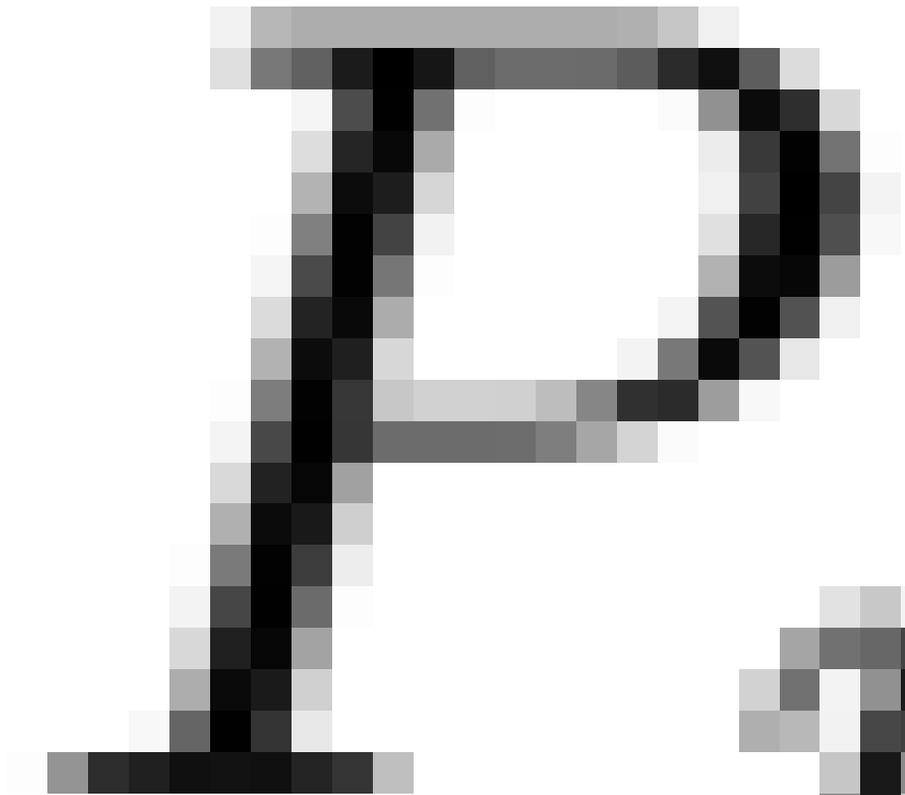
1995

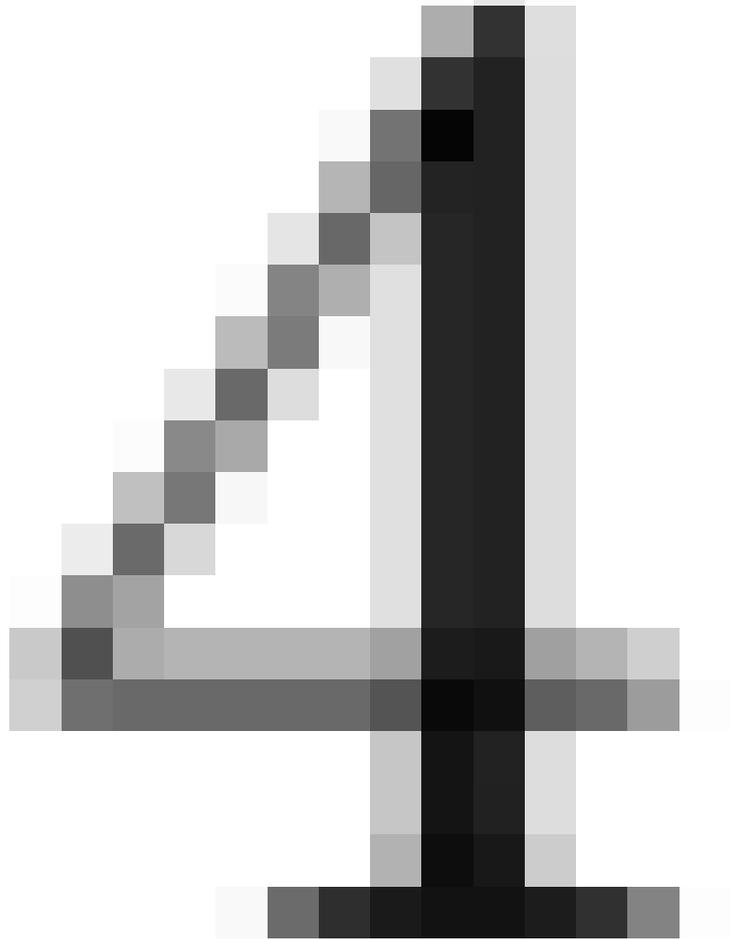
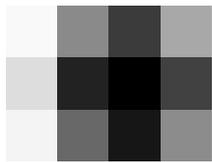
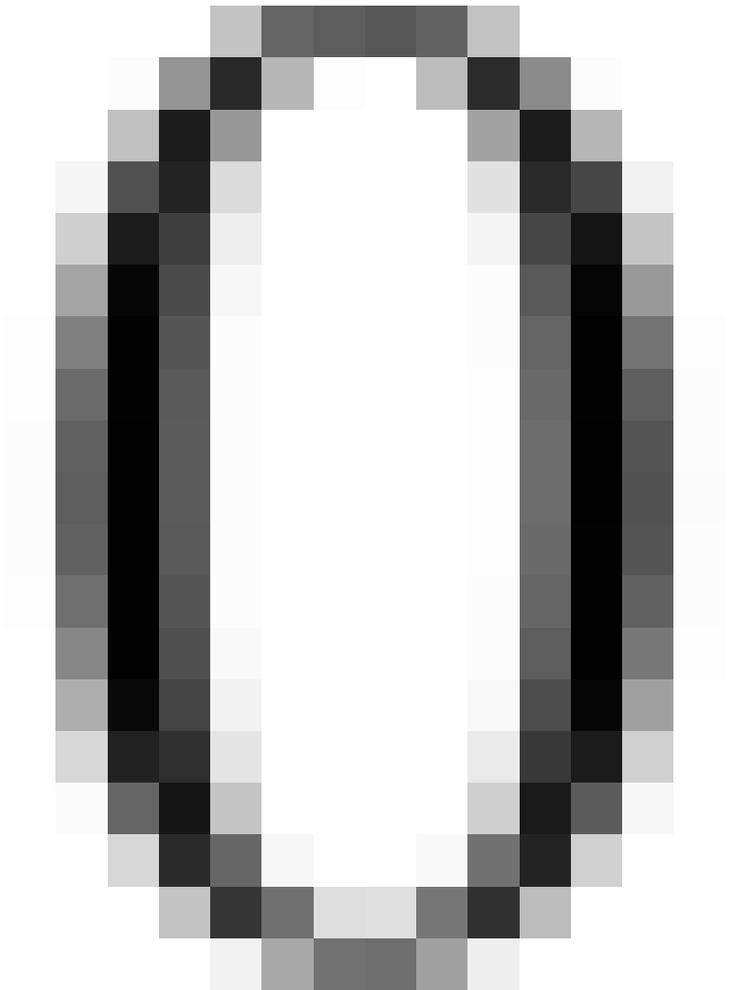


10

10









Q. 2

Q. 3

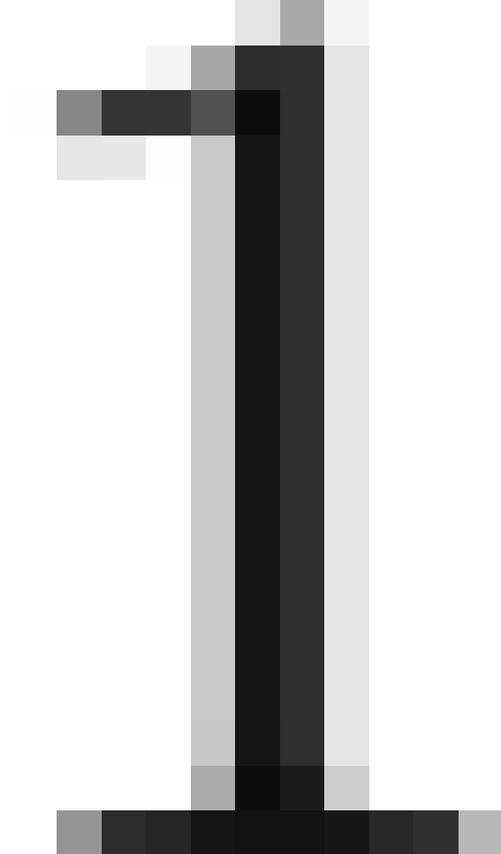
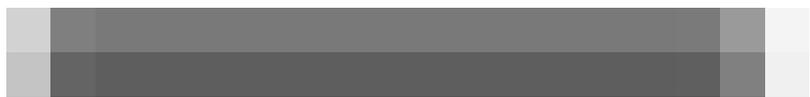
Q. 4

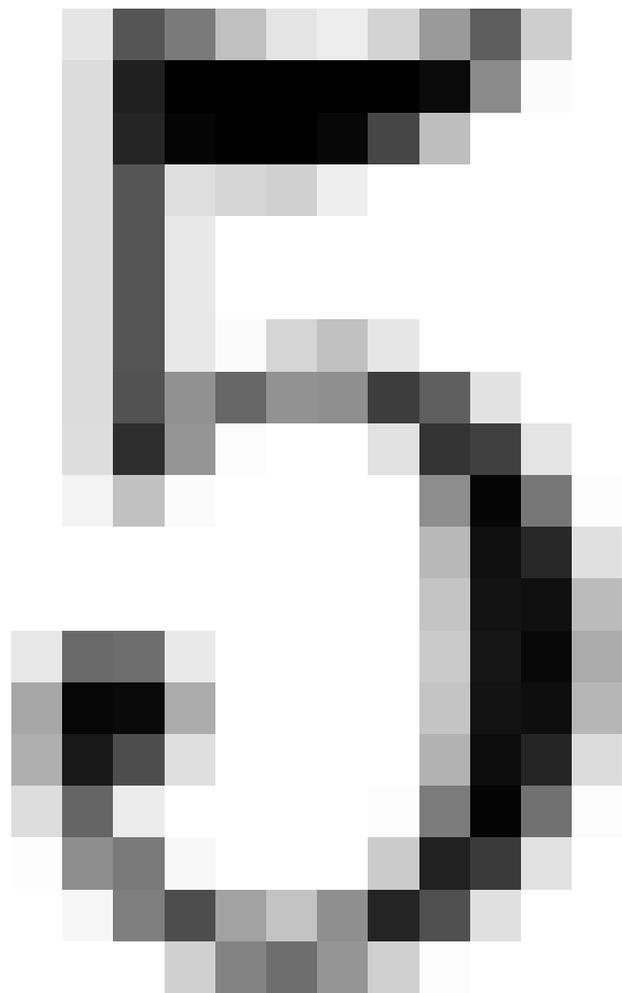
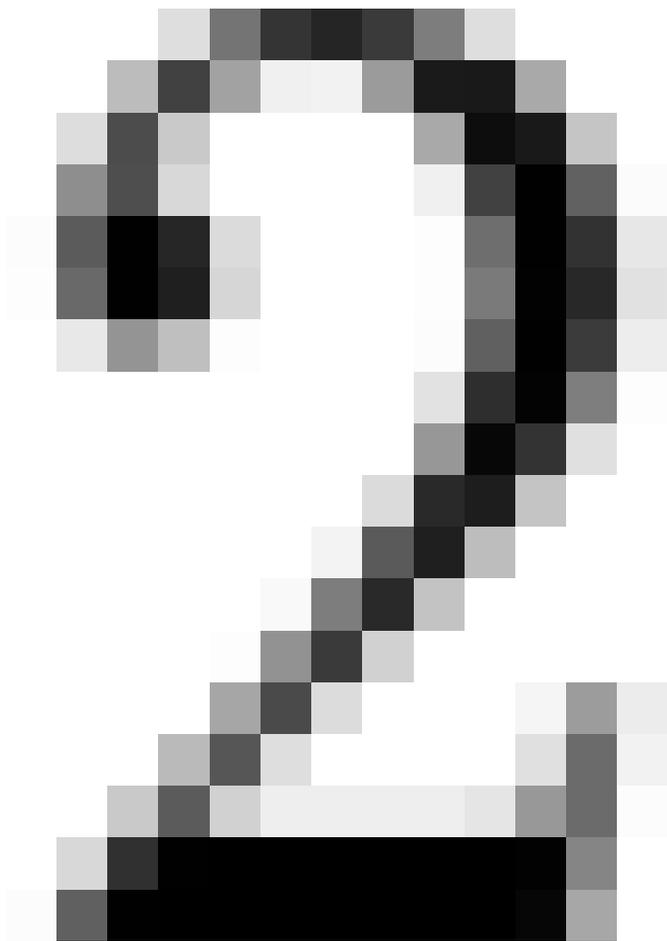
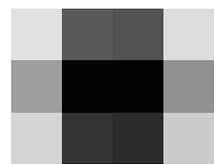
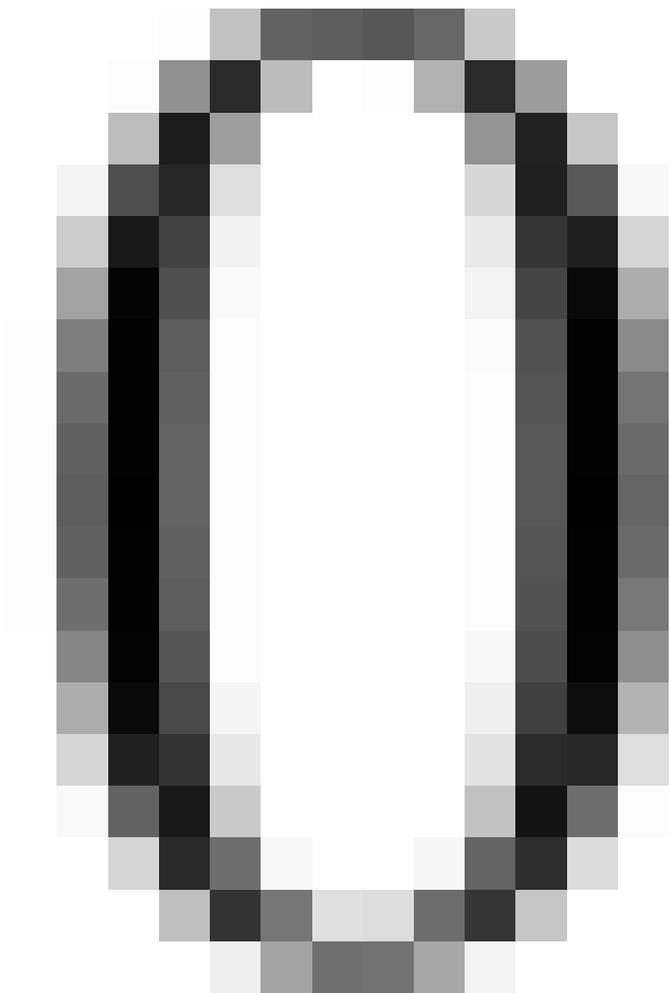
Q. 5

Q. 6

Q. 7

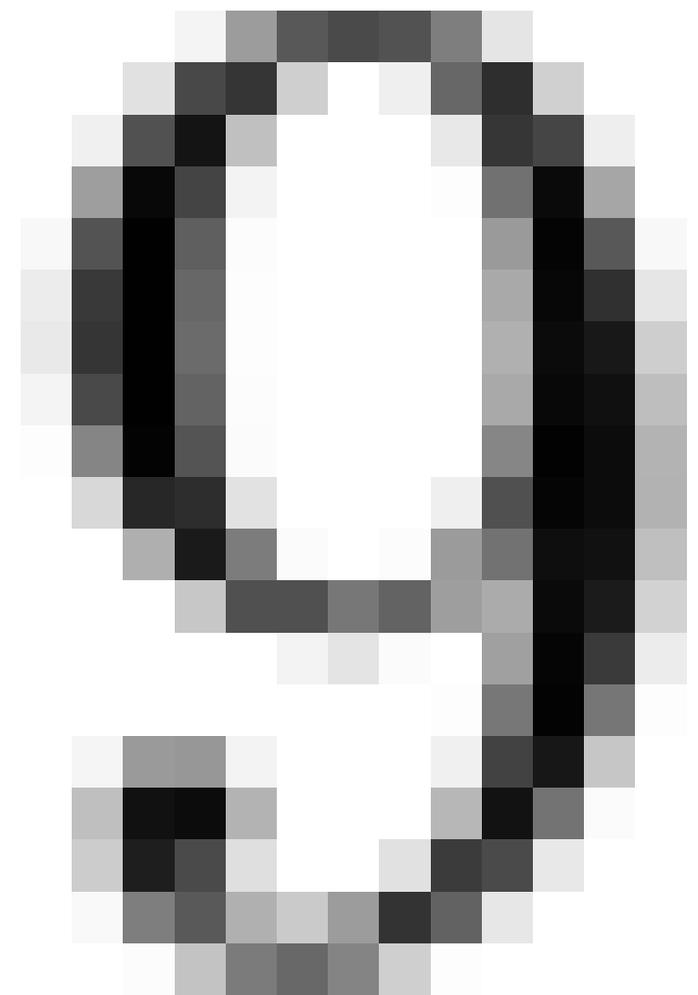
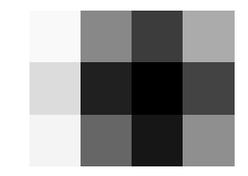
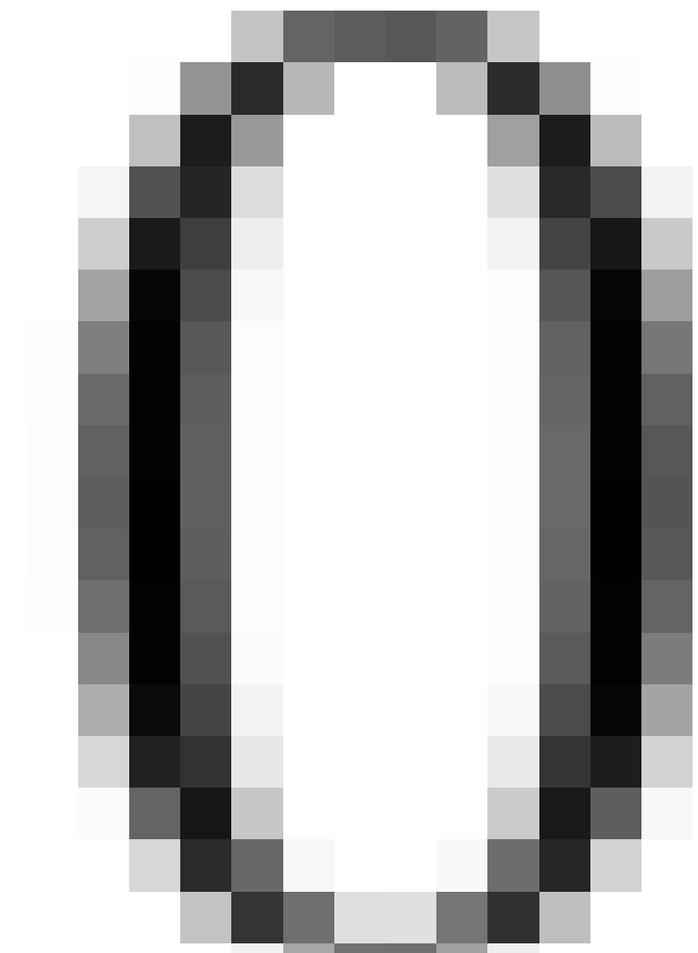
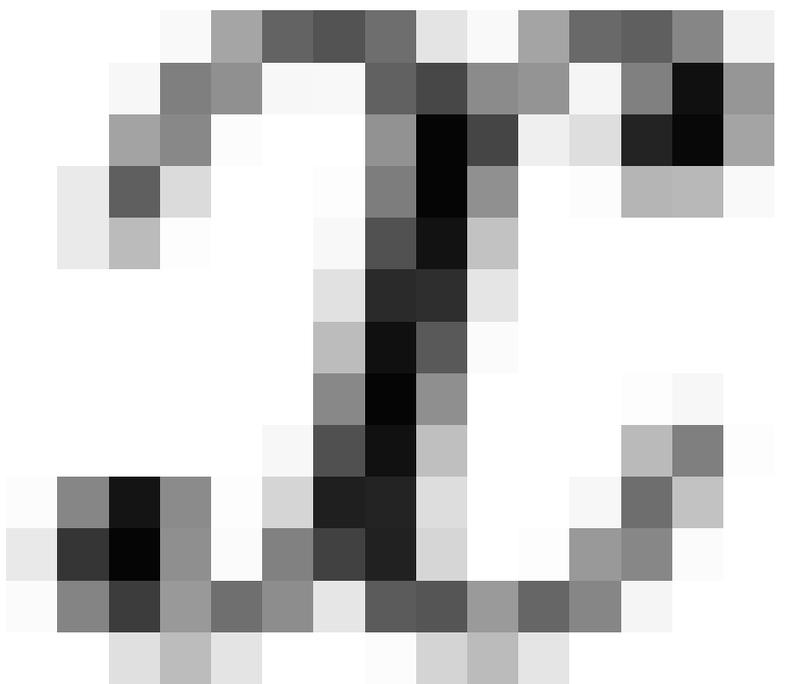
2020

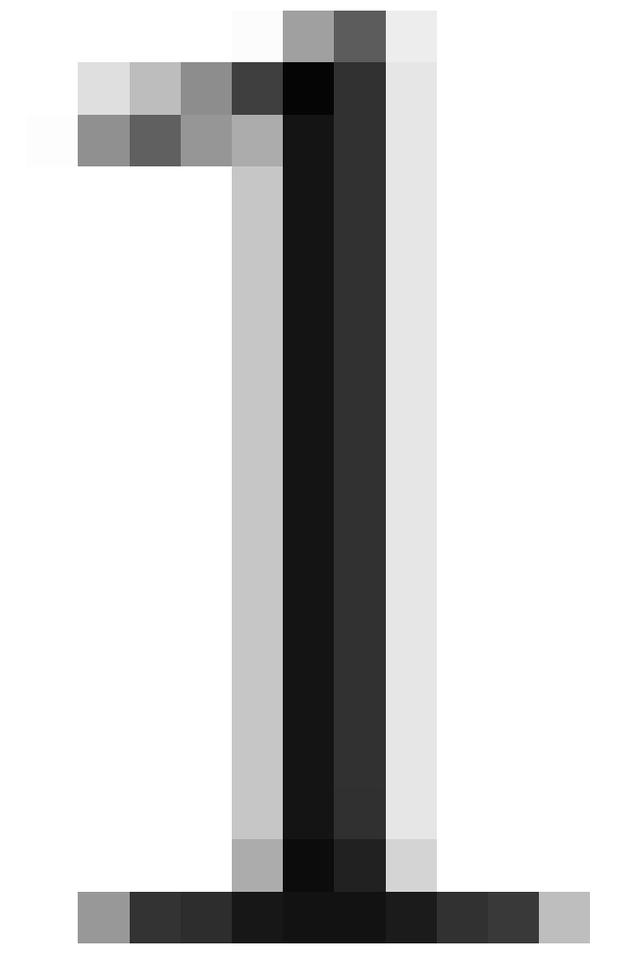
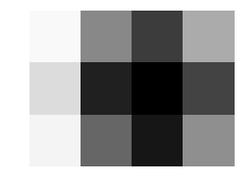
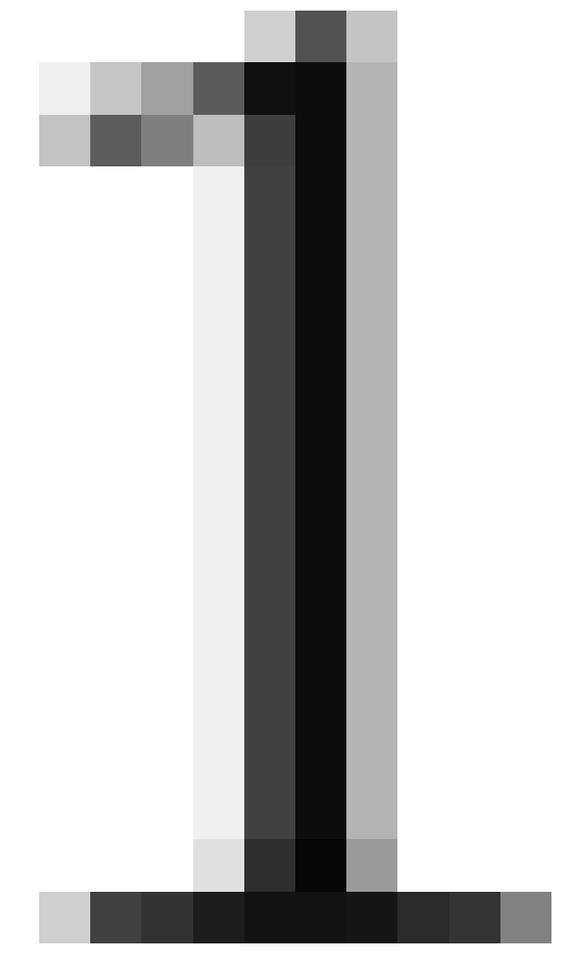
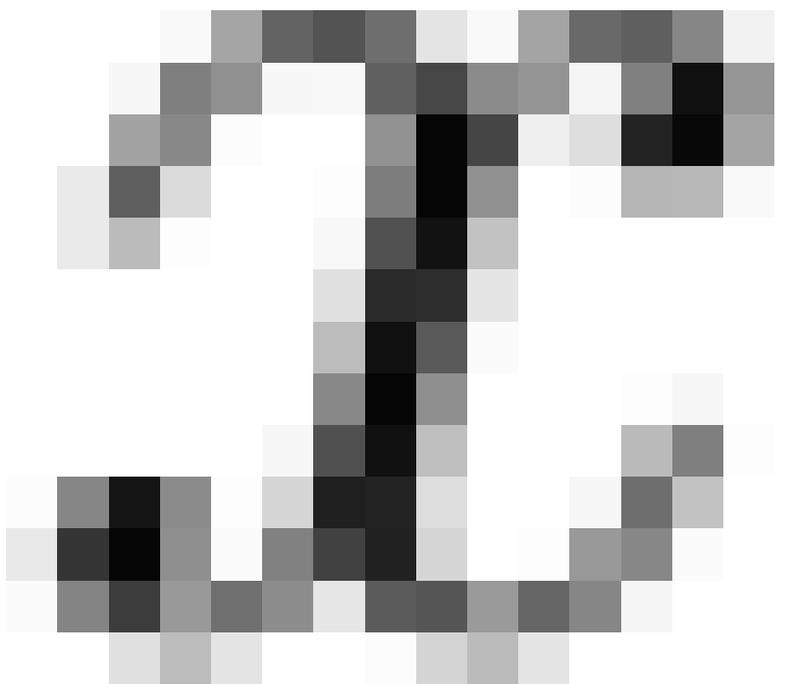


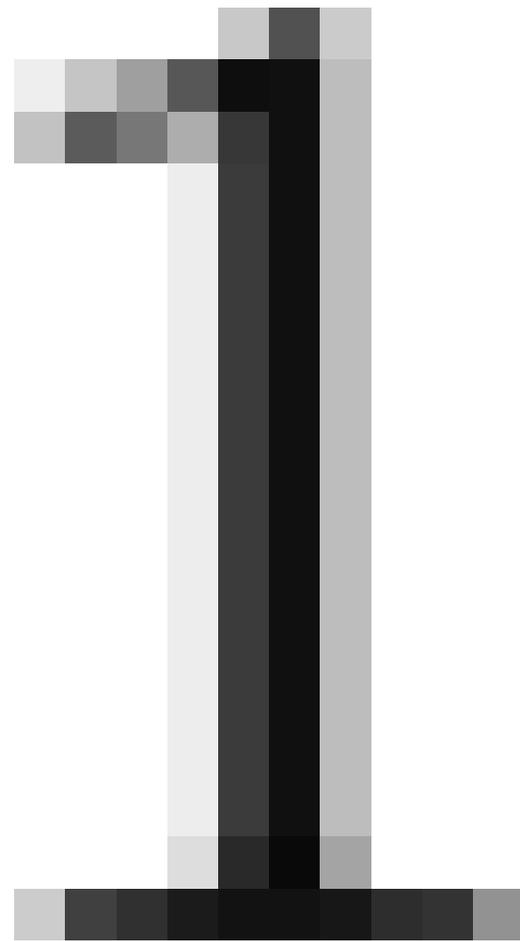
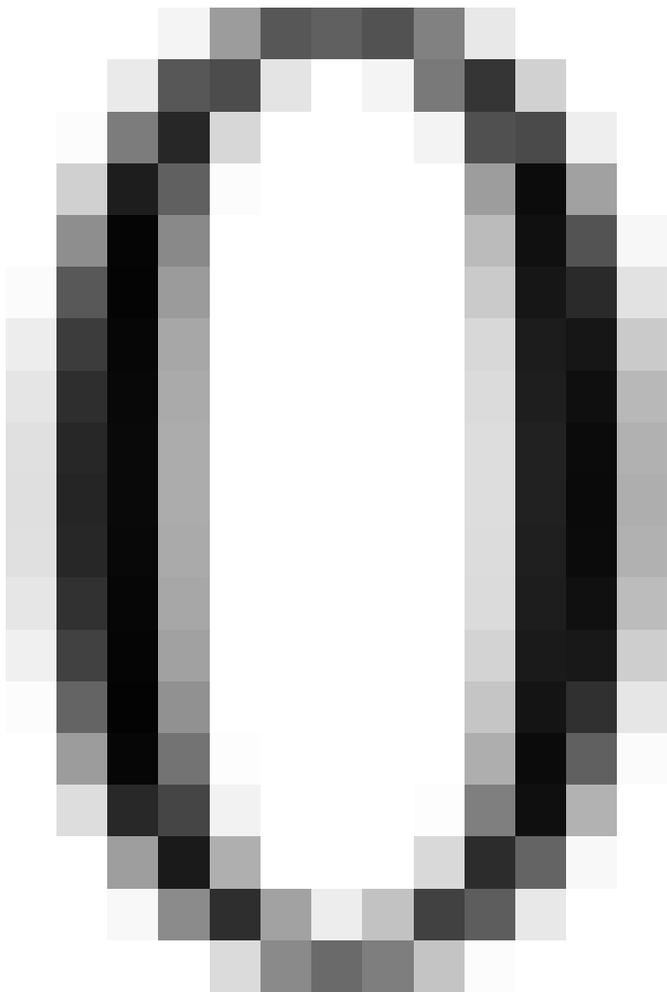
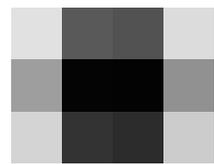
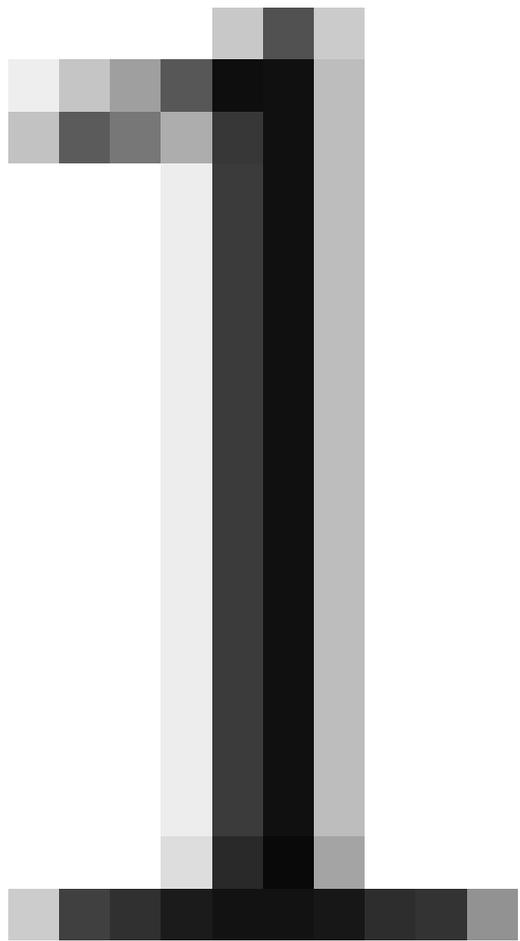


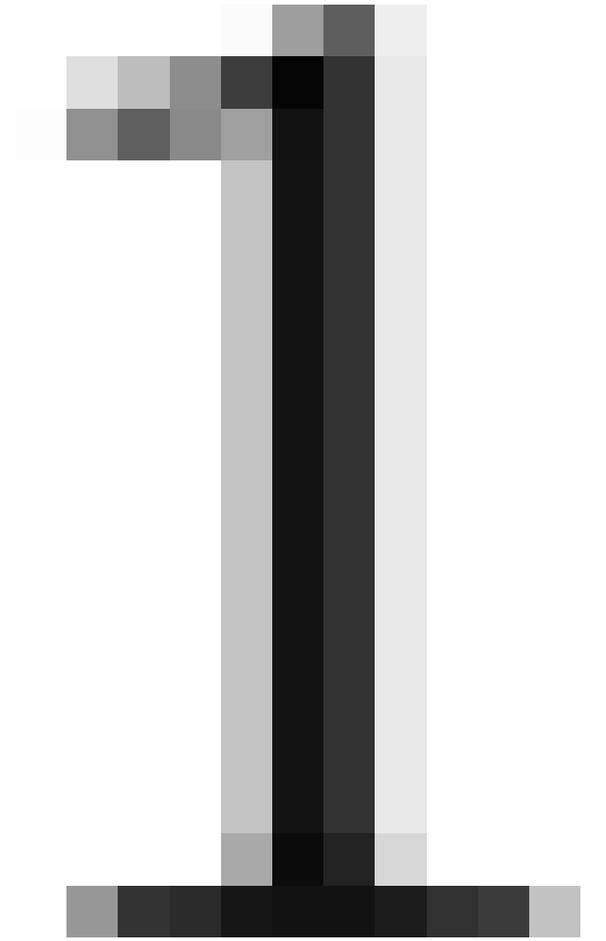
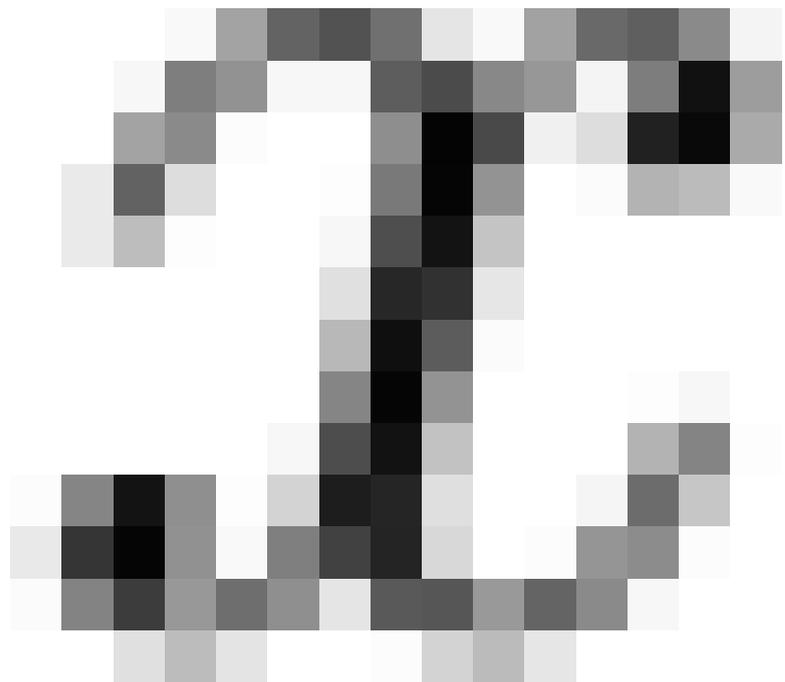


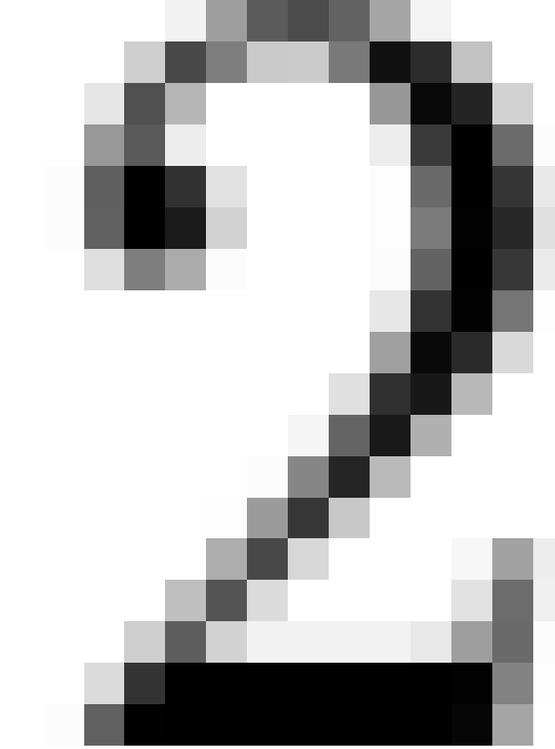
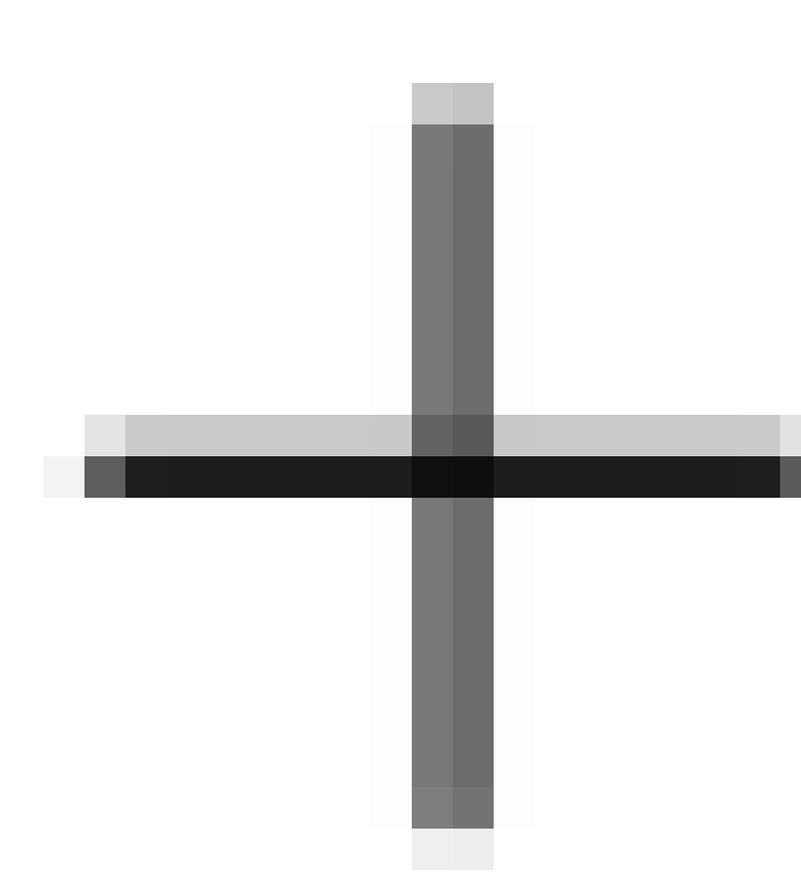
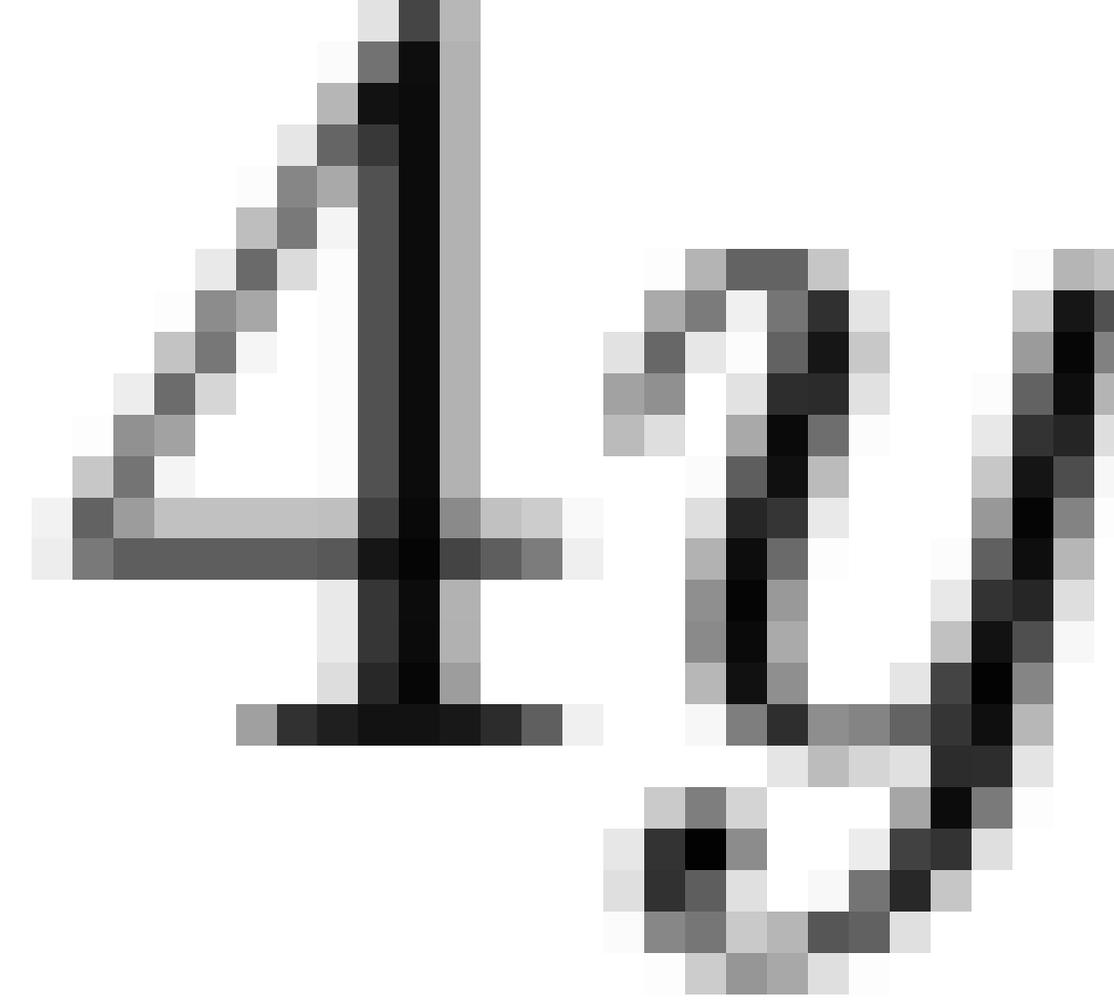
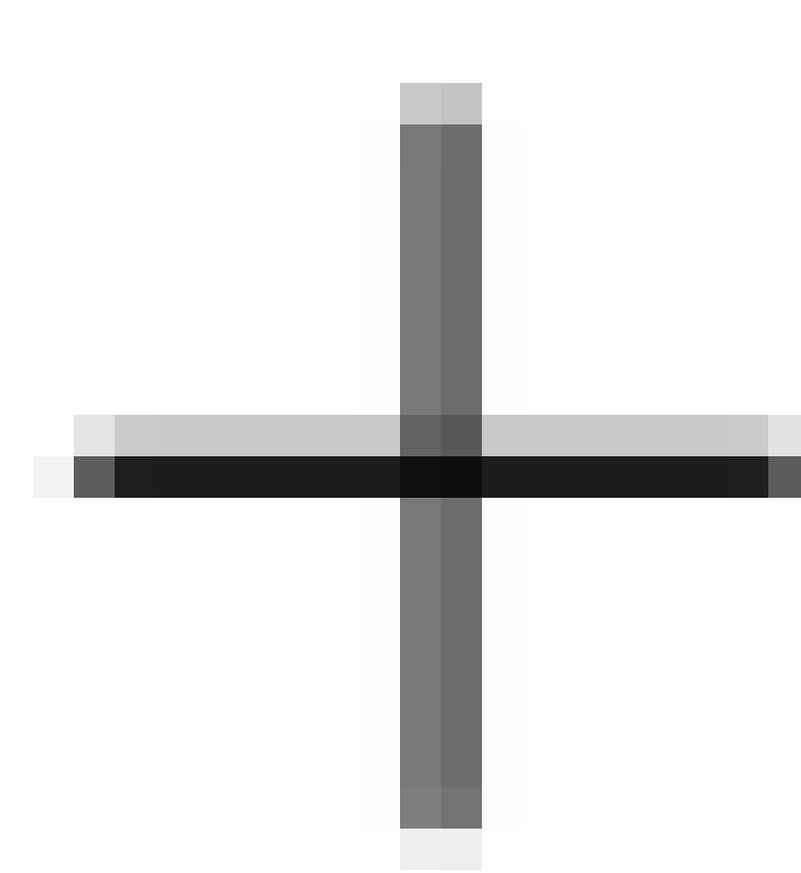
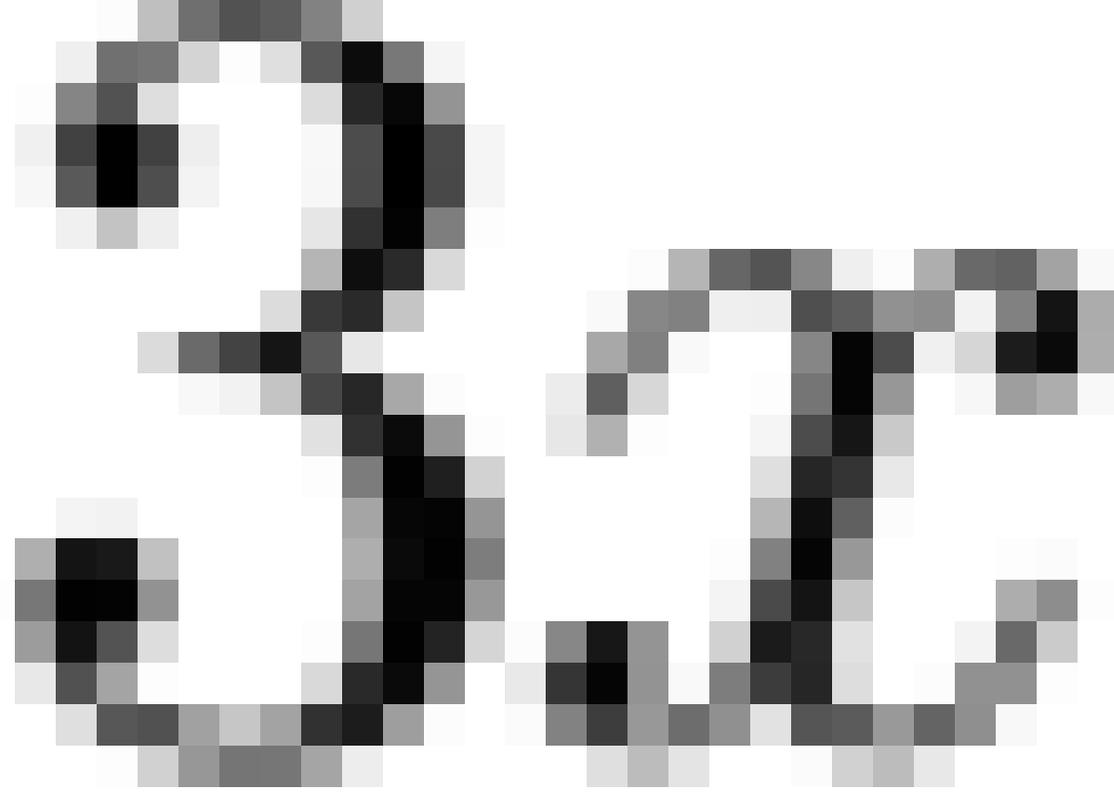


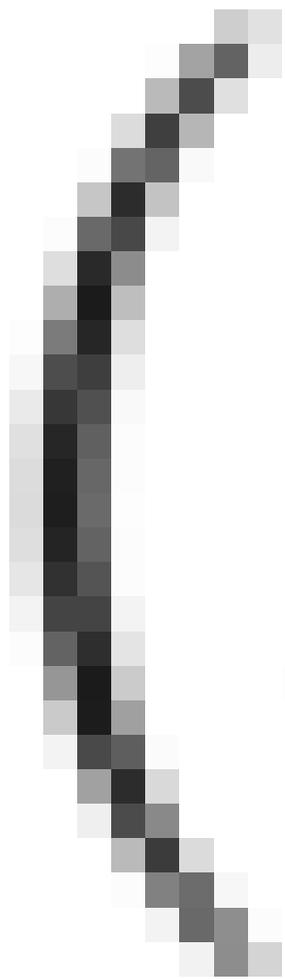


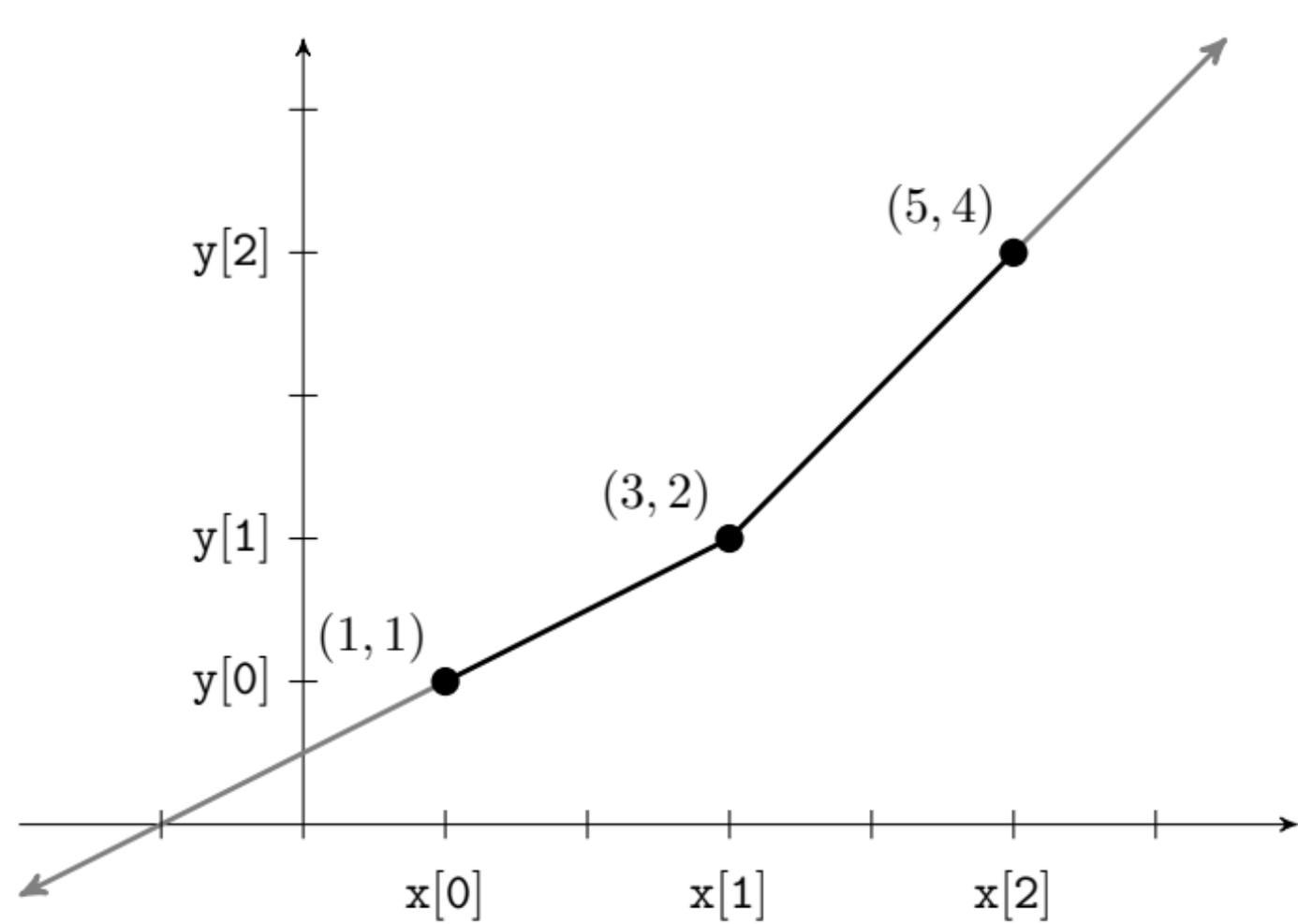


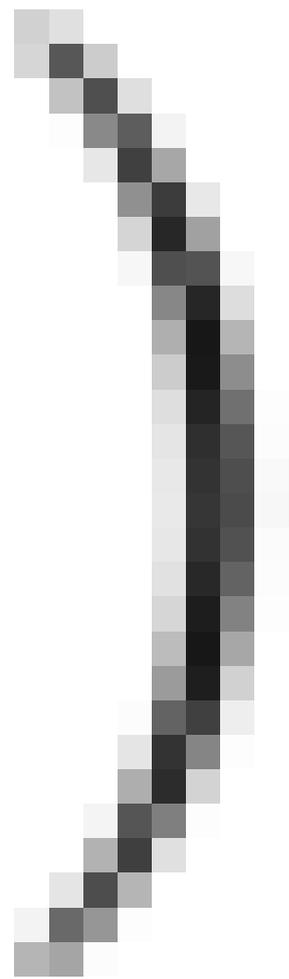
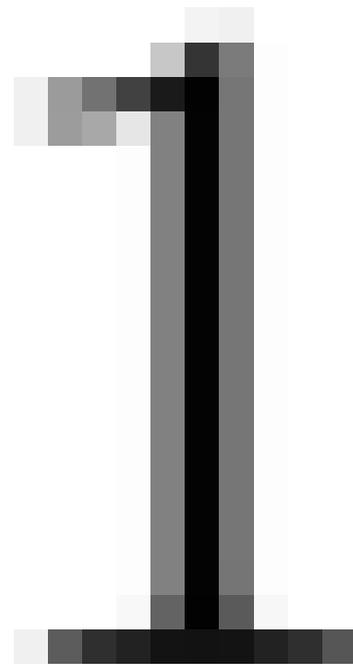
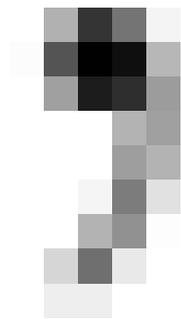
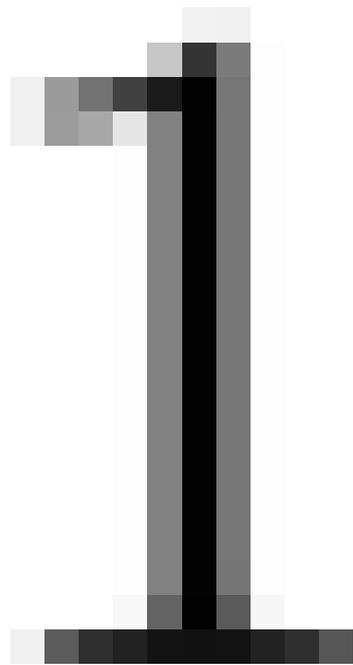


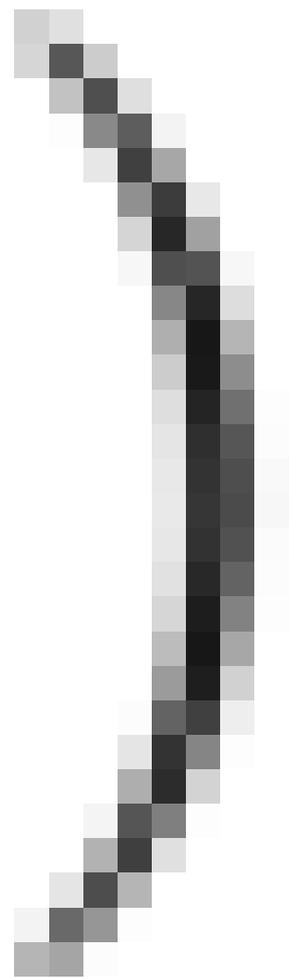
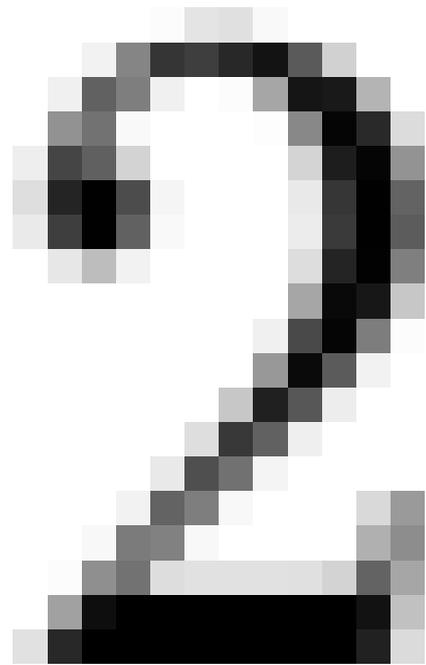
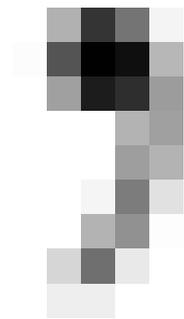
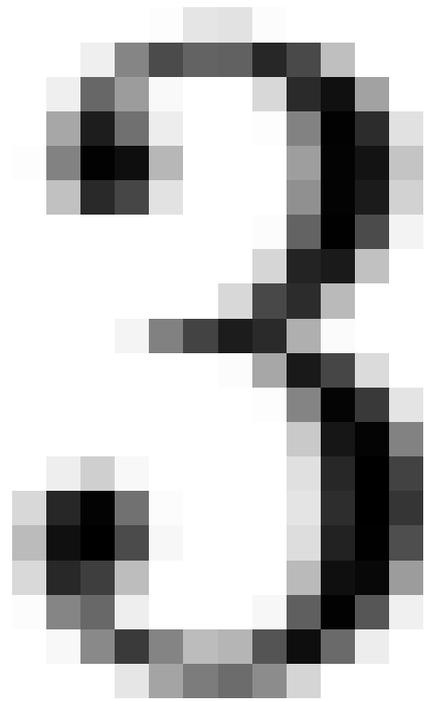


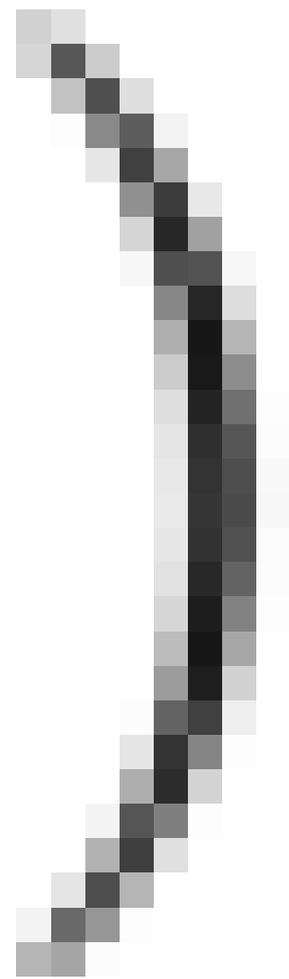
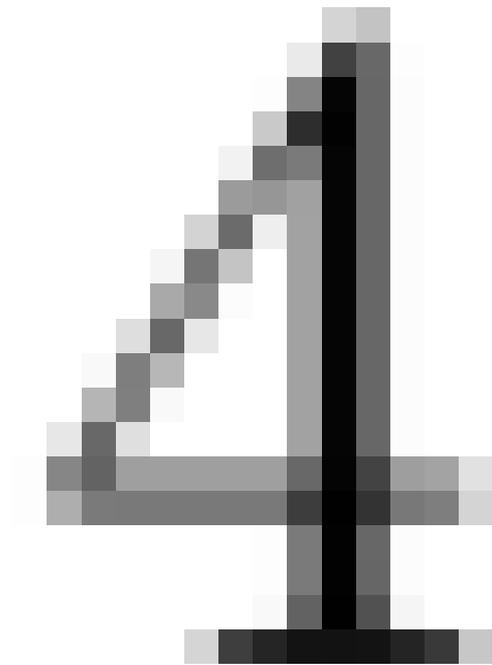
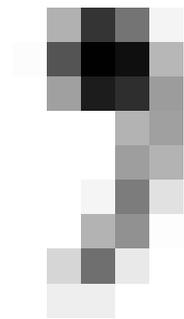
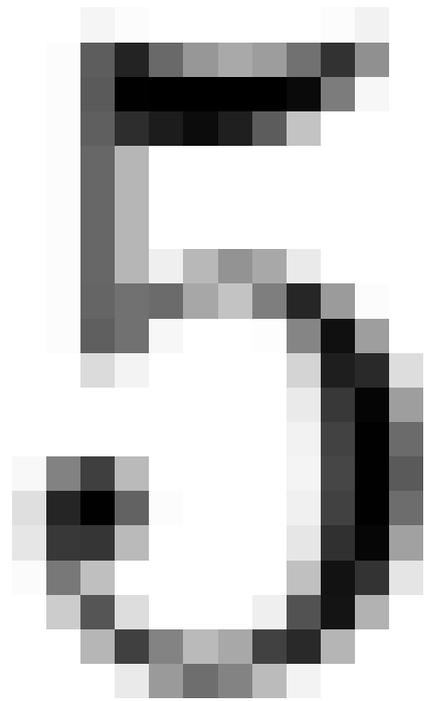


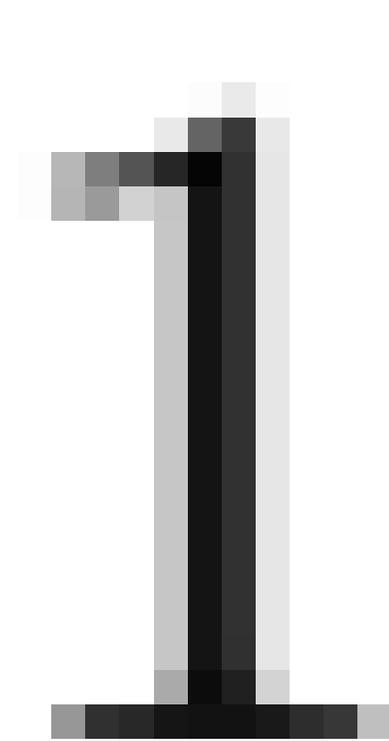
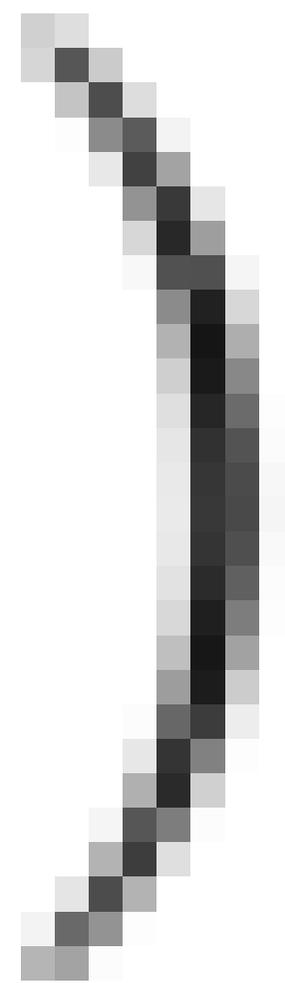
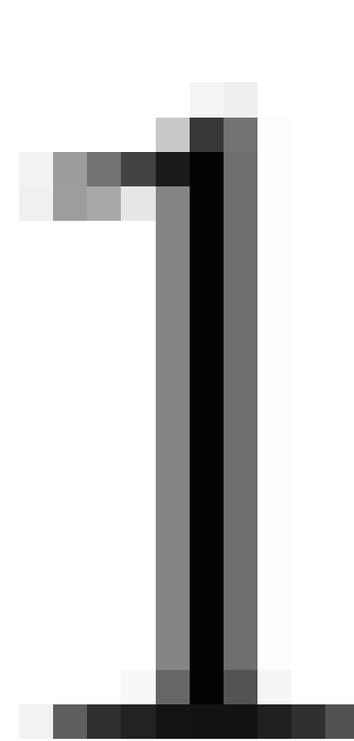
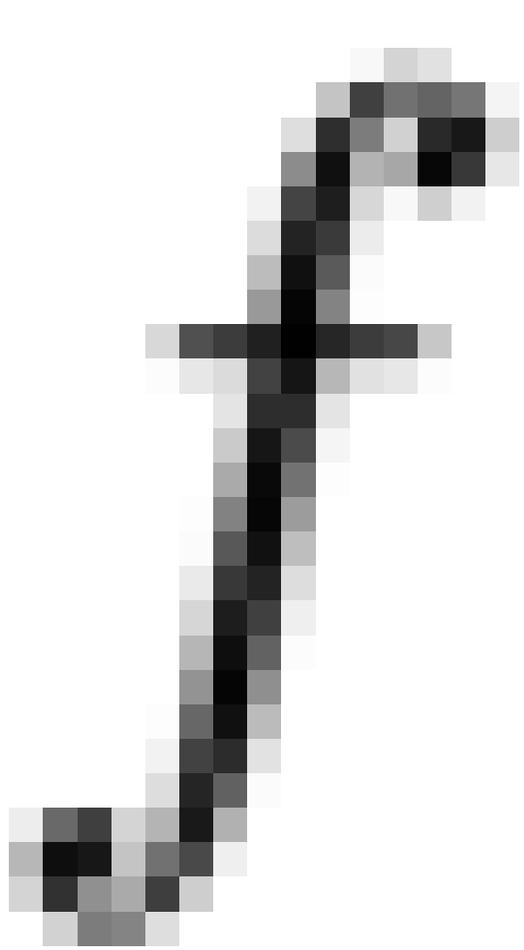


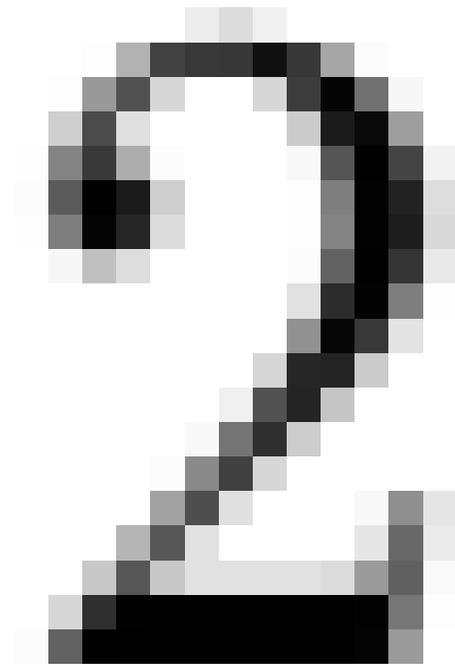
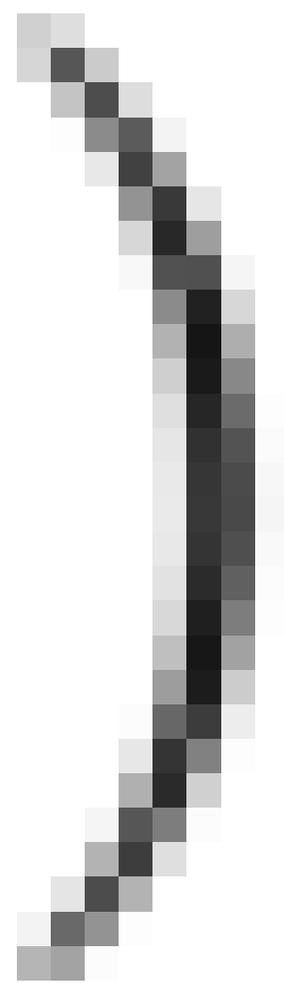
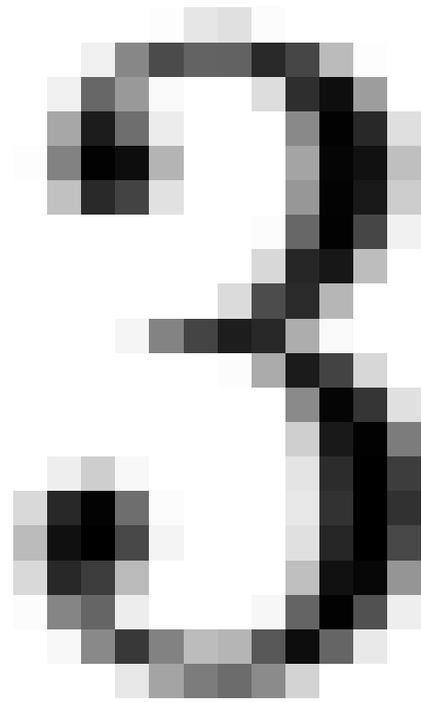
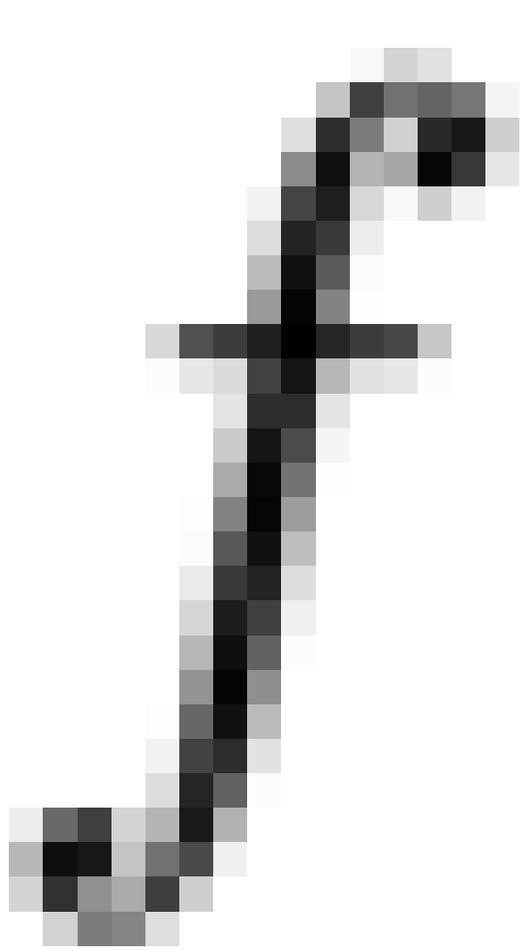




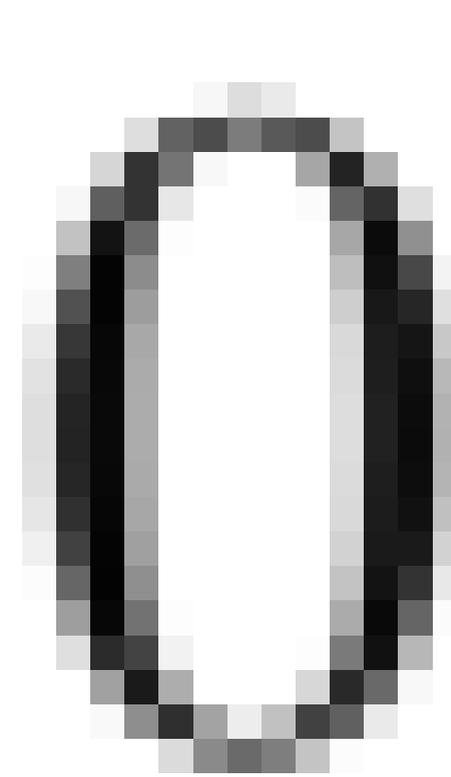
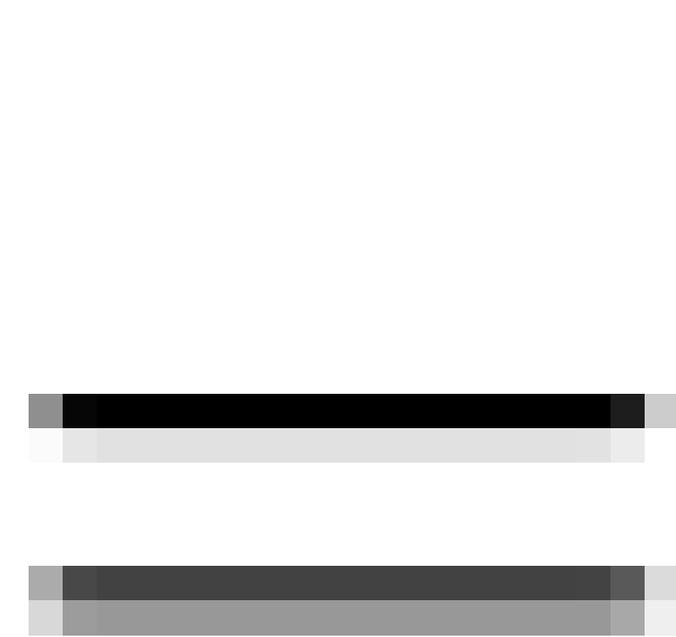
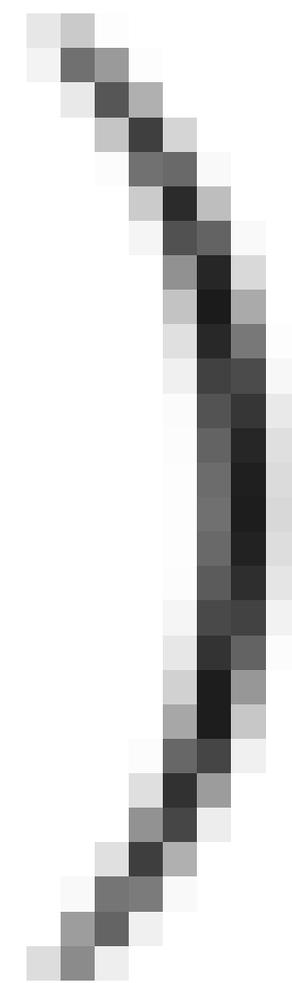
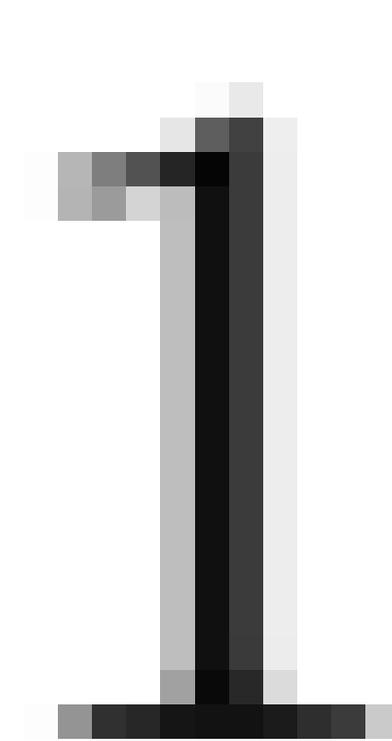






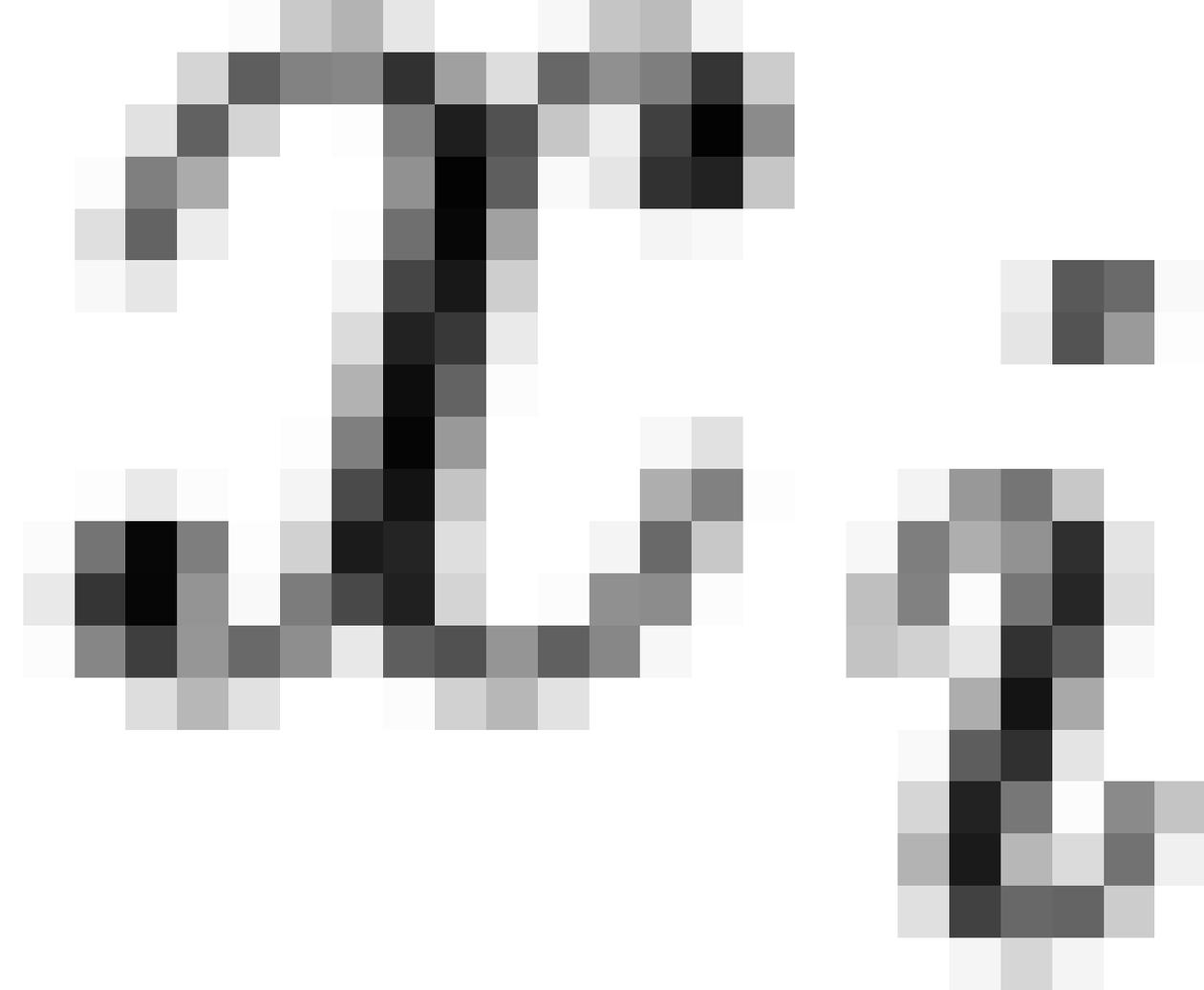
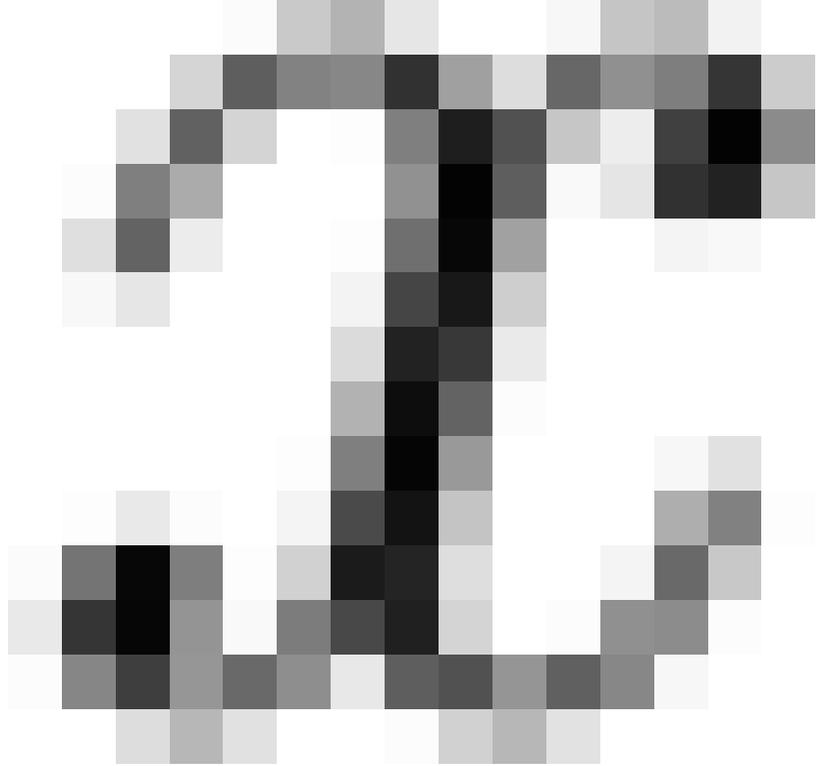


1951 = 1



$\mathbb{R} =]x_1, x_2[$; $\mathbb{R} =]x_1, x_2[$

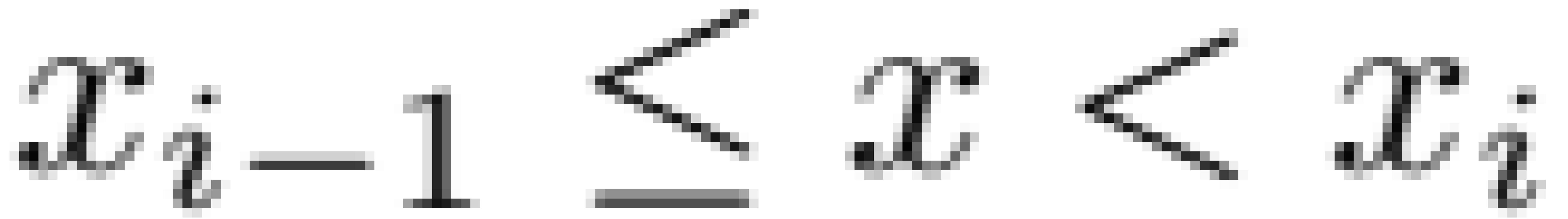
$$f(v) = \begin{cases} y_1 + \frac{y_2 - y_1}{x_2 - x_1} (v - x_1), & \text{if } v \leq x_1, \\ y_i + \frac{y_{i+1} - y_i}{x_{i+1} - x_i} (v - x_i), & \text{if } v \geq x_i \text{ and } v \leq x_{i+1}, \\ y_n + \frac{y_n - y_{n-1}}{x_n - x_{n-1}} (v - x_n), & \text{if } v \geq x_n. \end{cases}$$



(x_1, x_2) , $(x_1 + 1, x_2 + 1)$, $(x_1 + 2, x_2 + 2)$

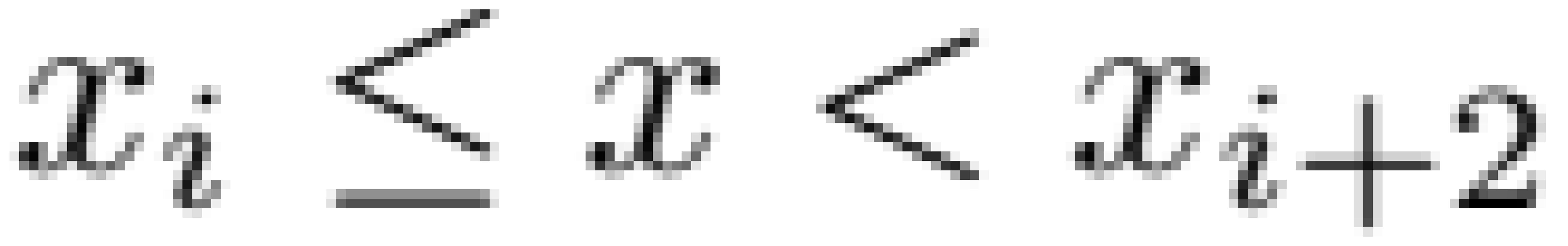






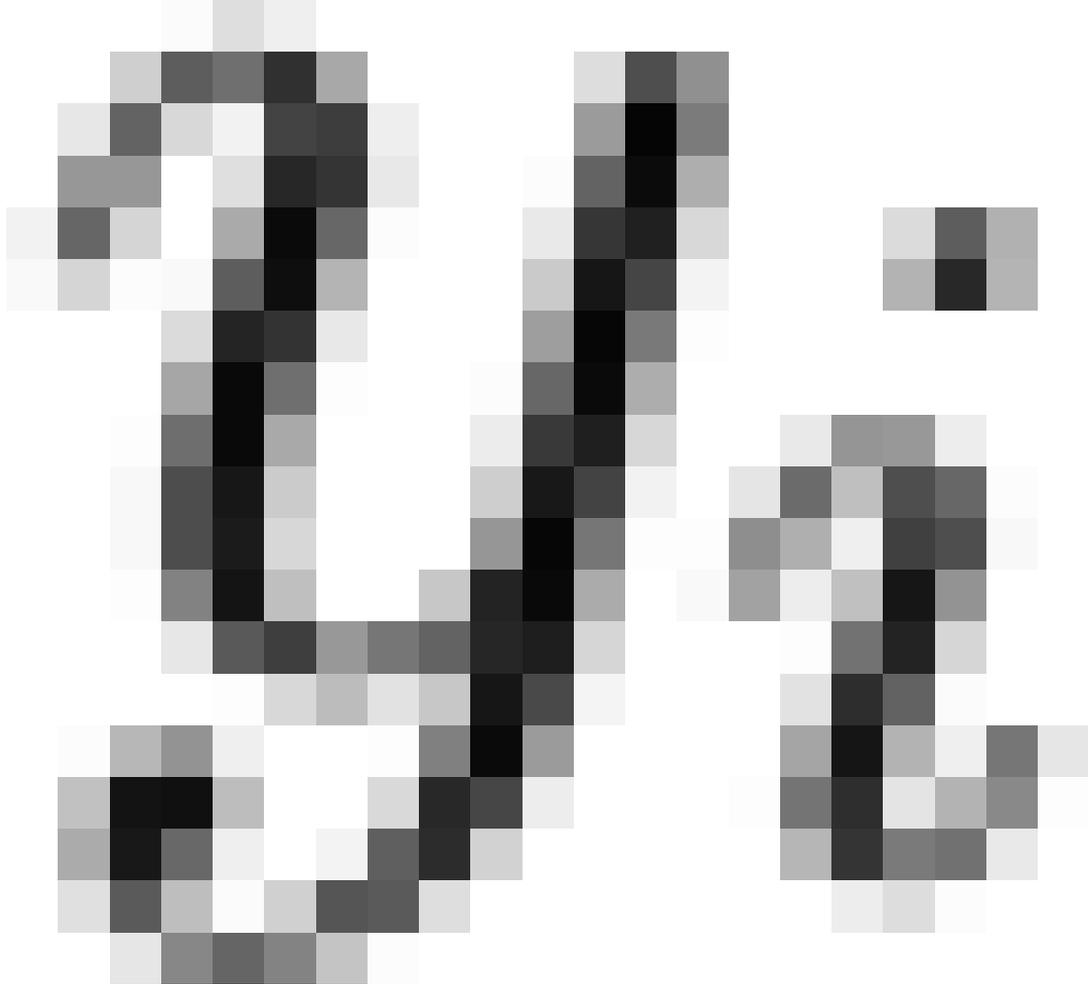
1991-1992

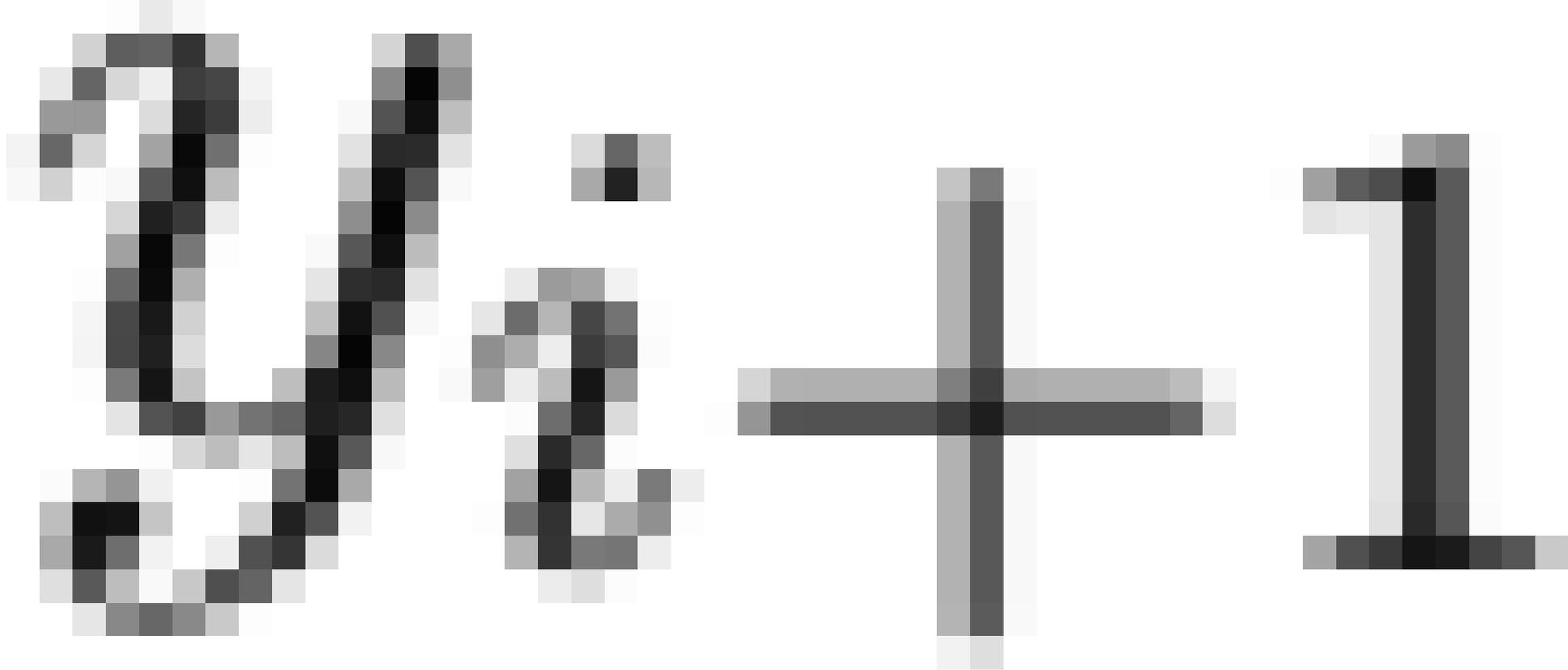




1991 + 1991 = 3982

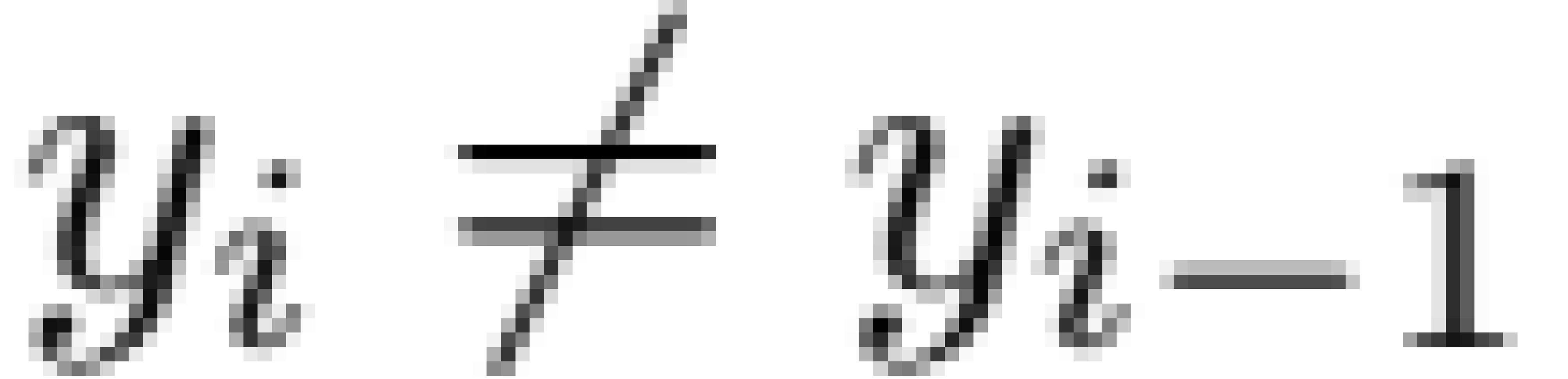


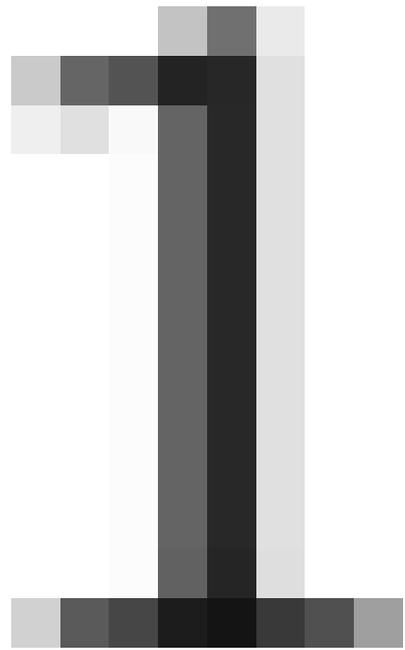
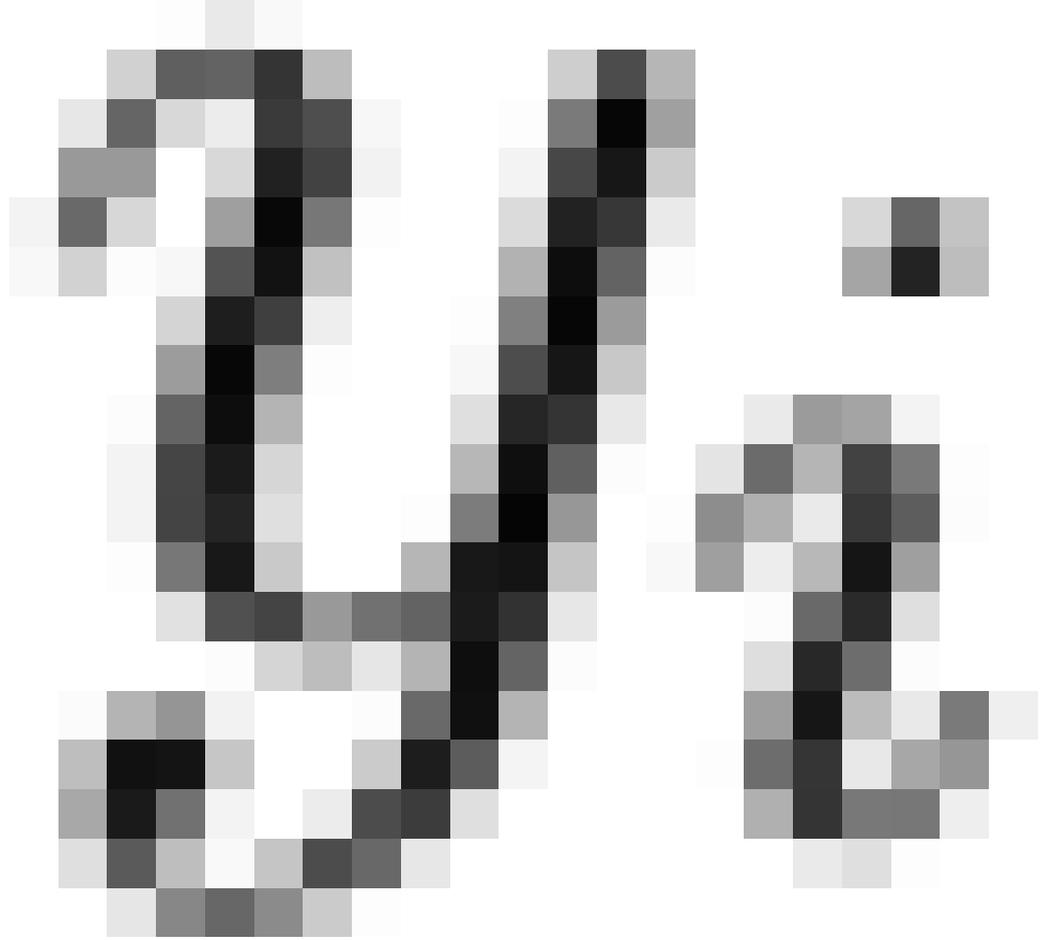


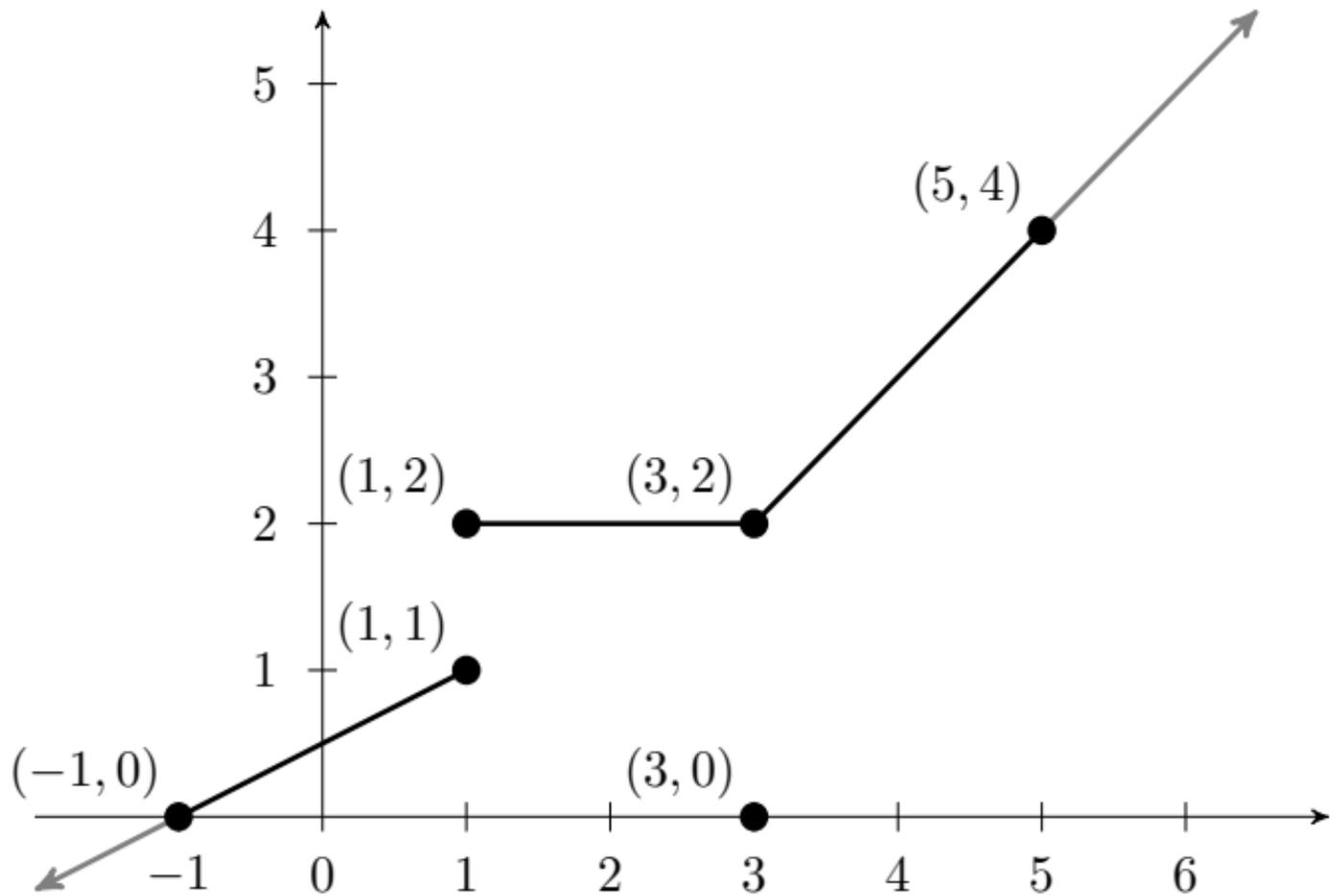


$$(x_2, y_2), (x_1, y_1), (x_2, y_2), (x_2 + 1, y_2 + 1), (x_2 + 2, y_2 + 2)$$

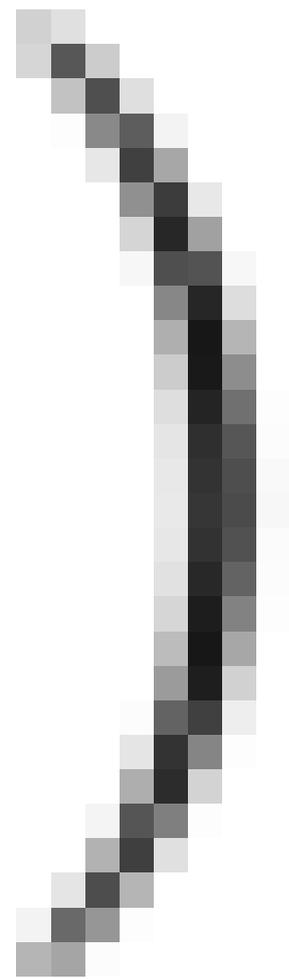
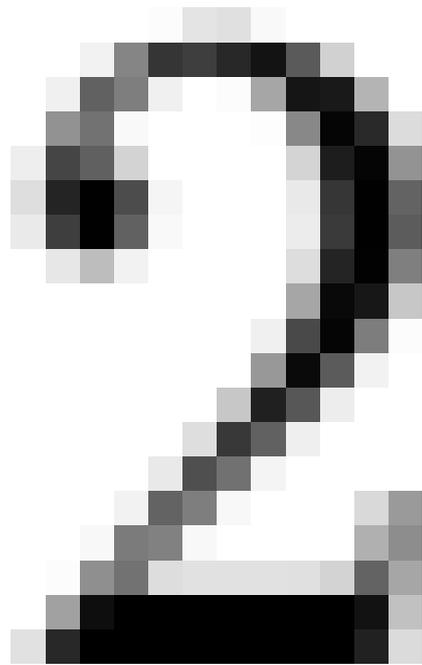
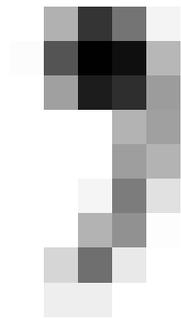
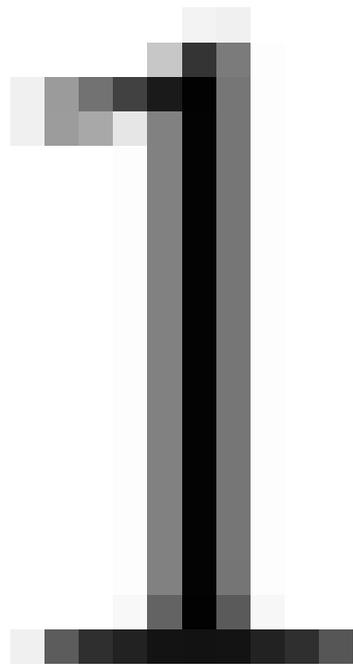


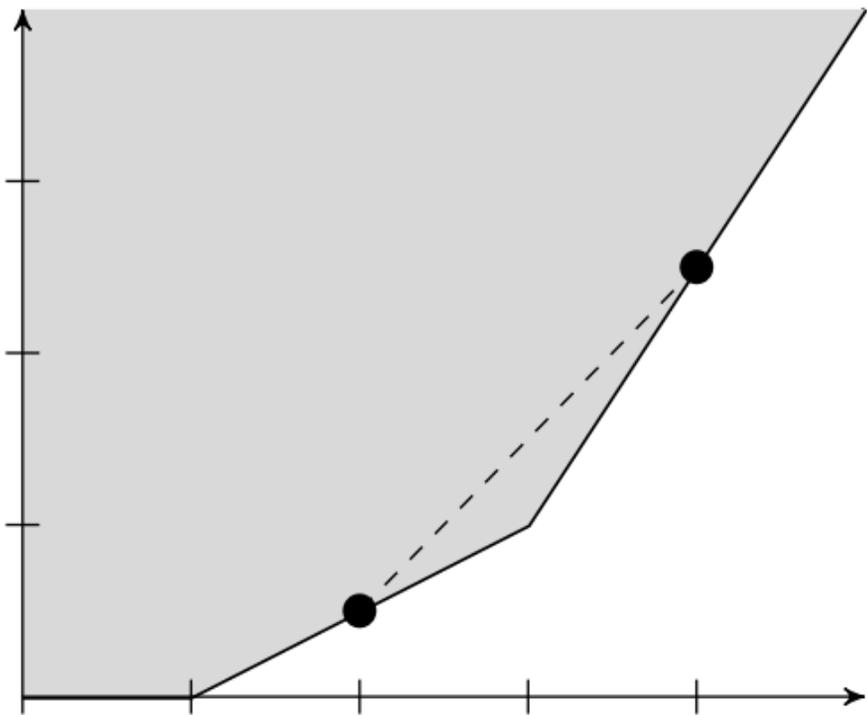


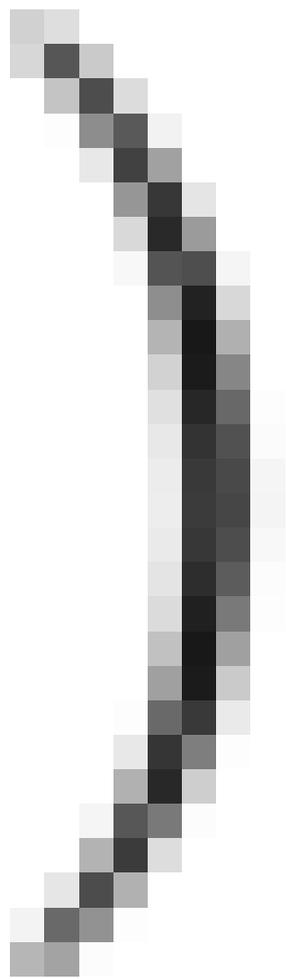
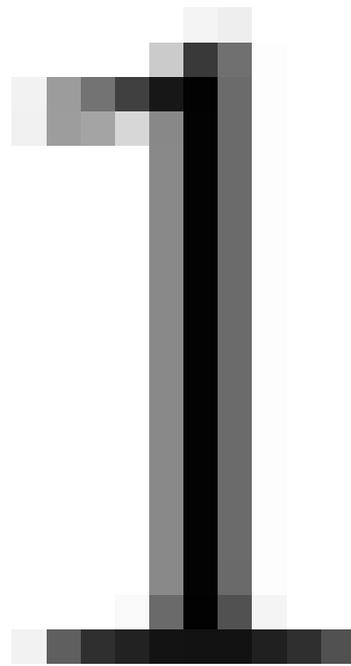
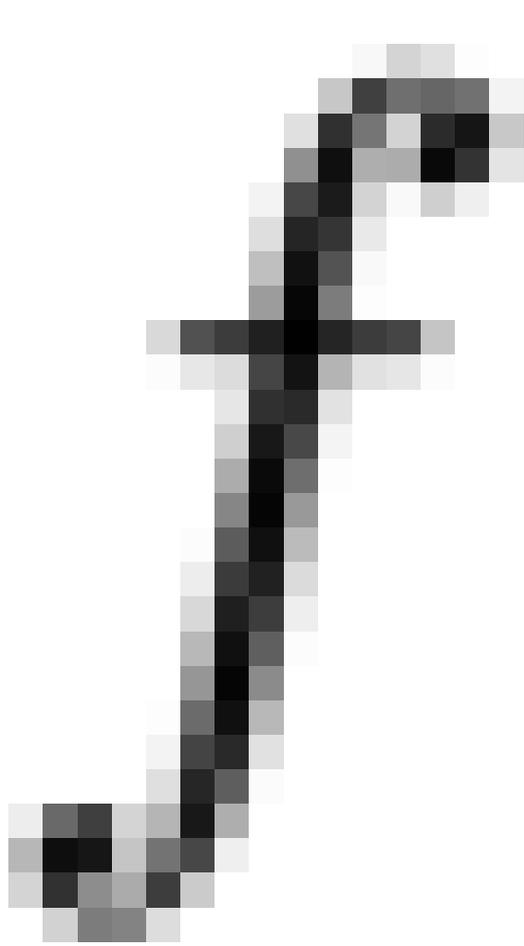


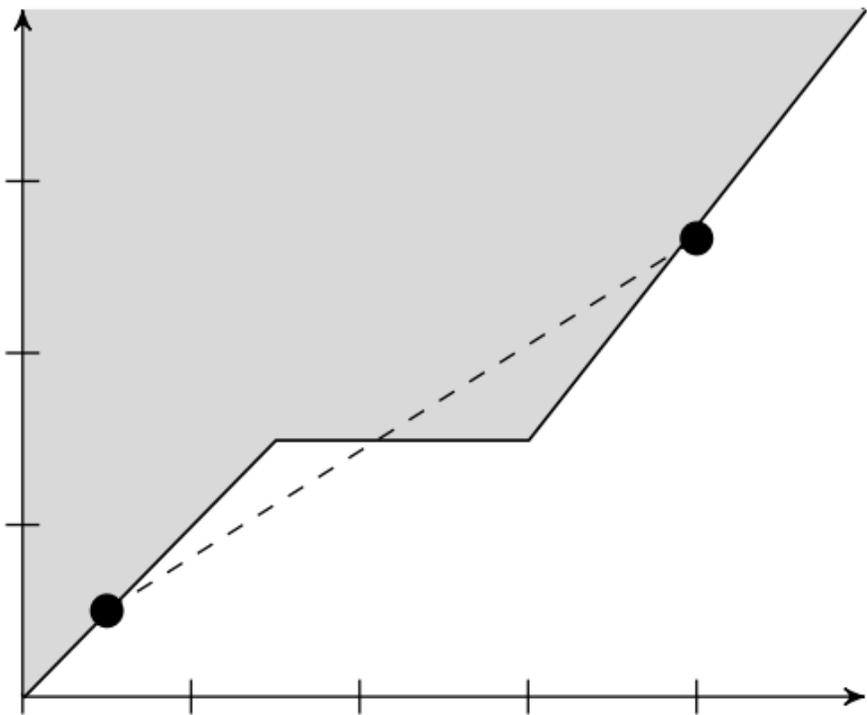


(-1, 0), (1, 1), (2, 0), (3, 2), (0, 3), (1, 2)









3x2

+

4x2

+

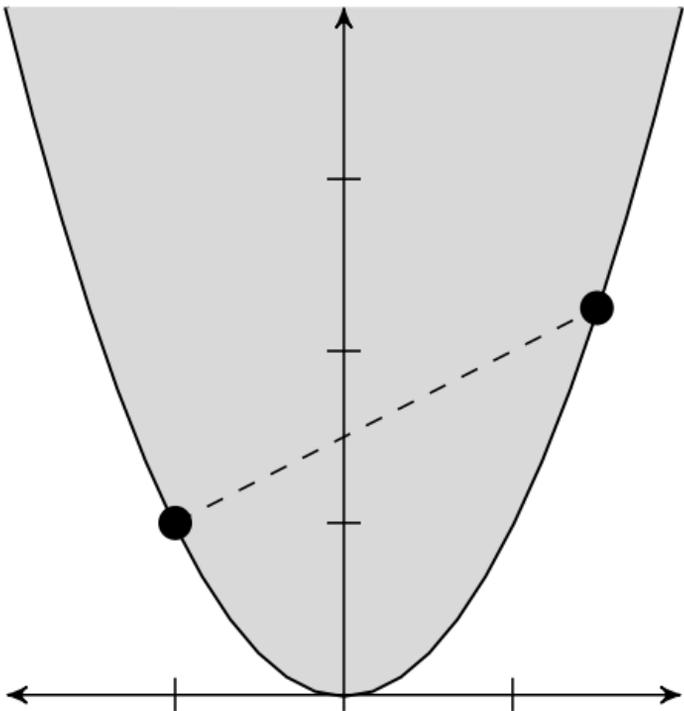
2x2

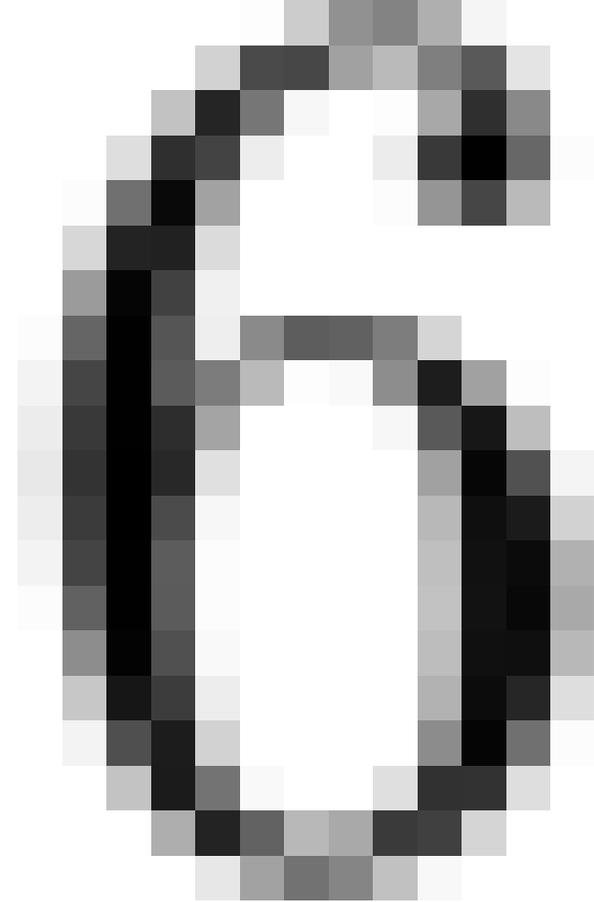
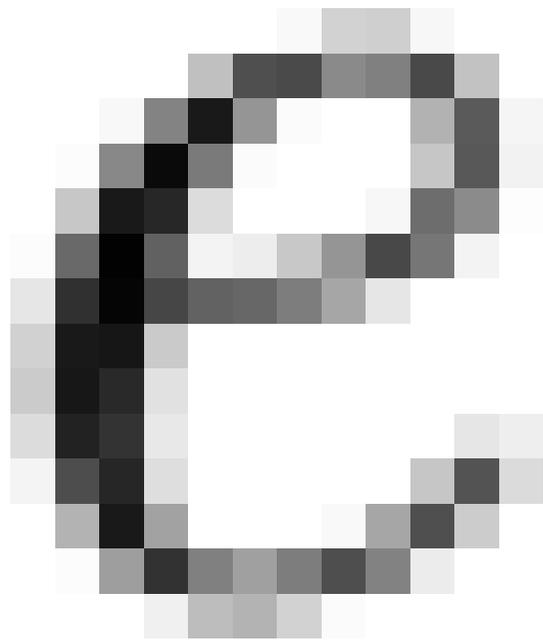
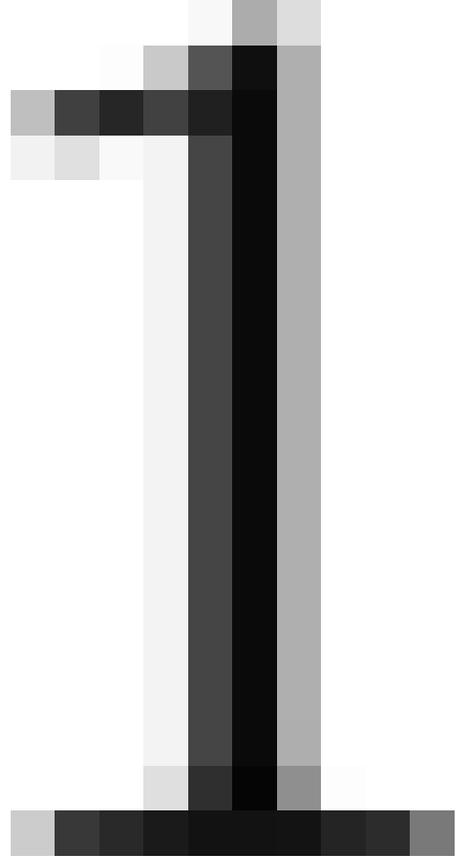
+

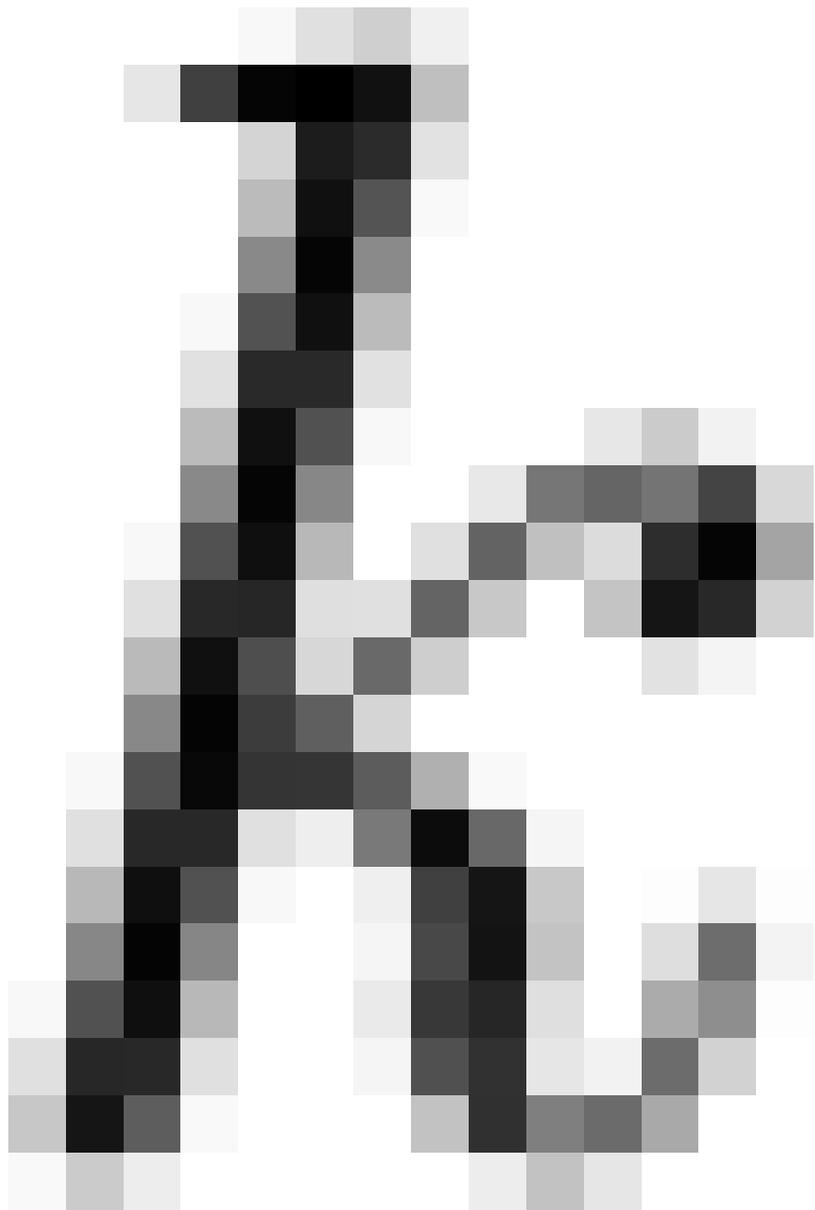
2x2

+

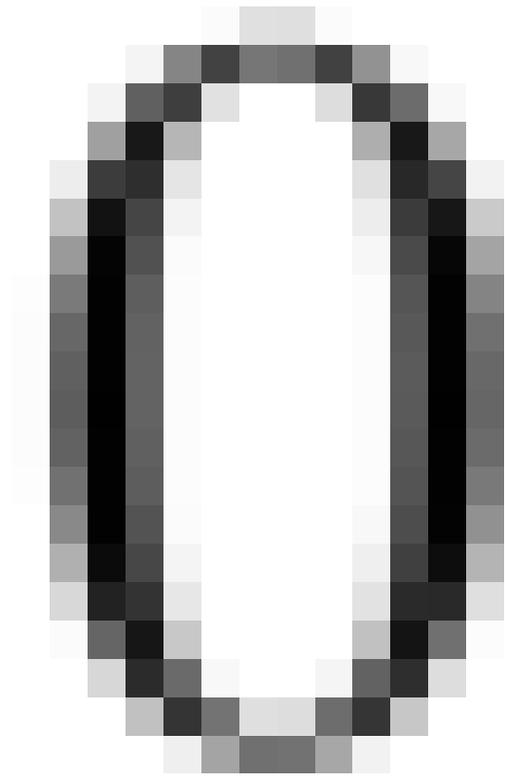
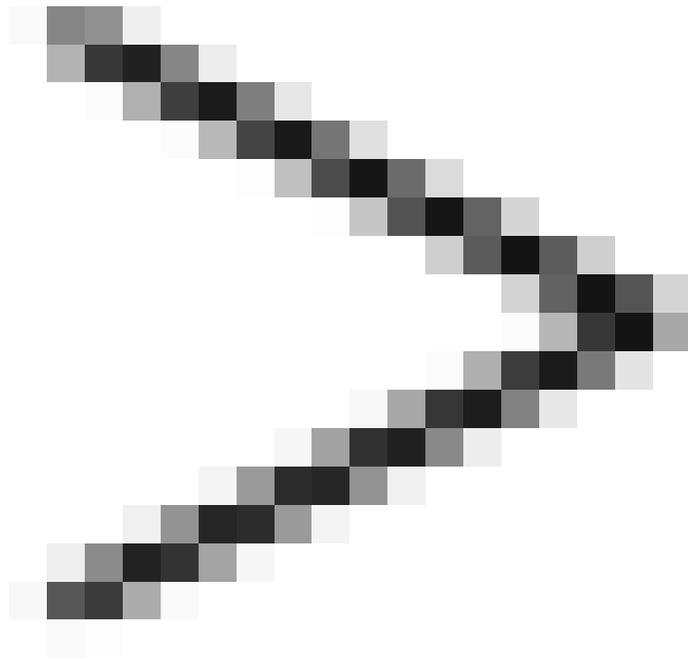
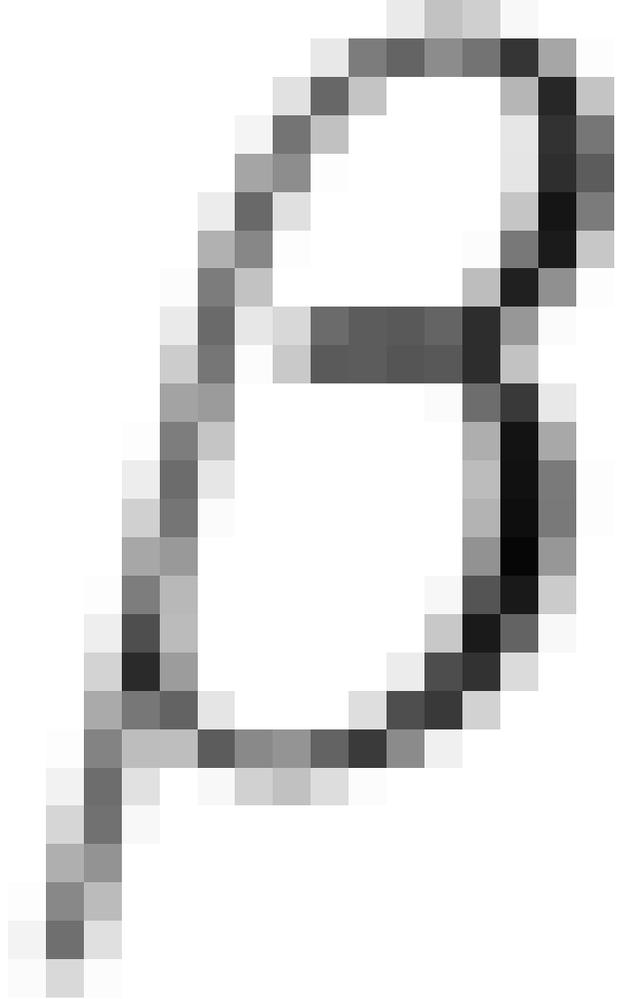
2

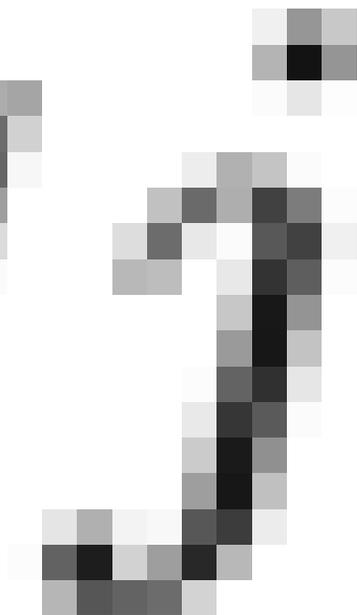
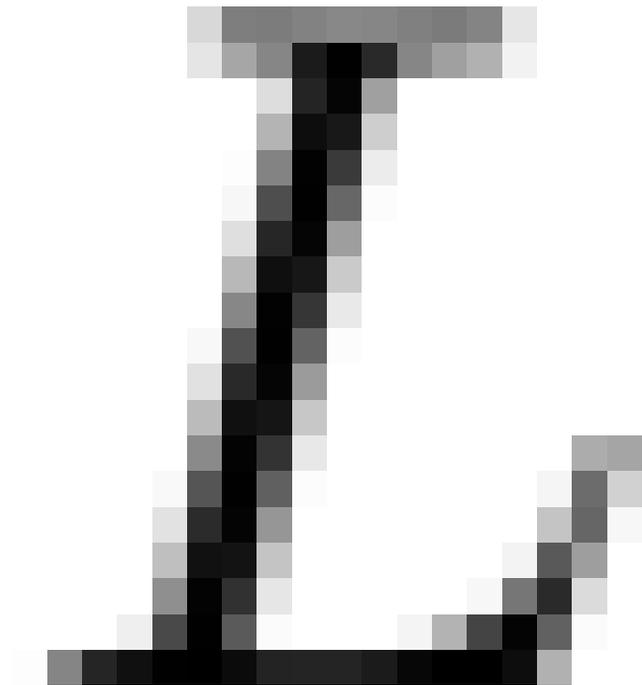




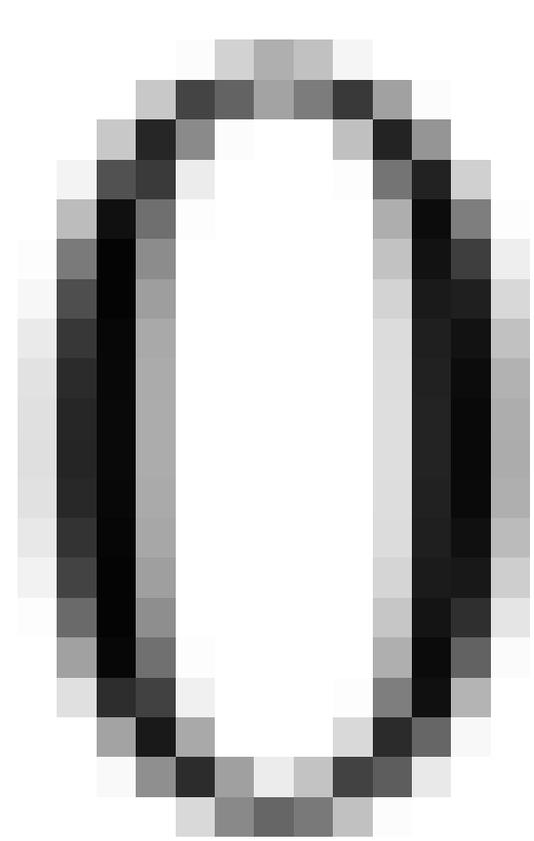
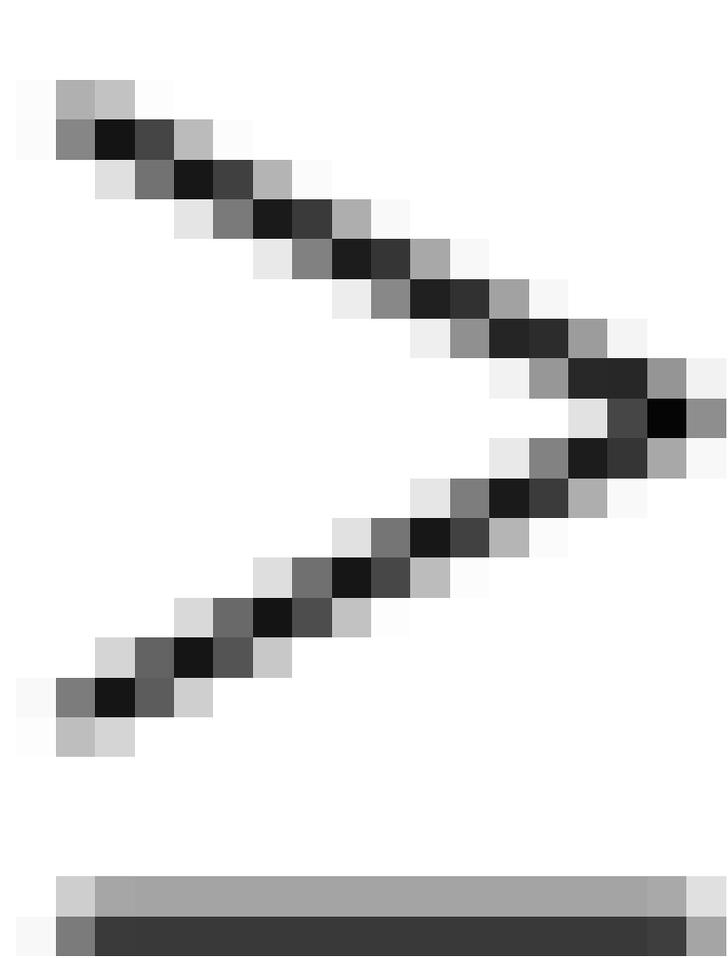
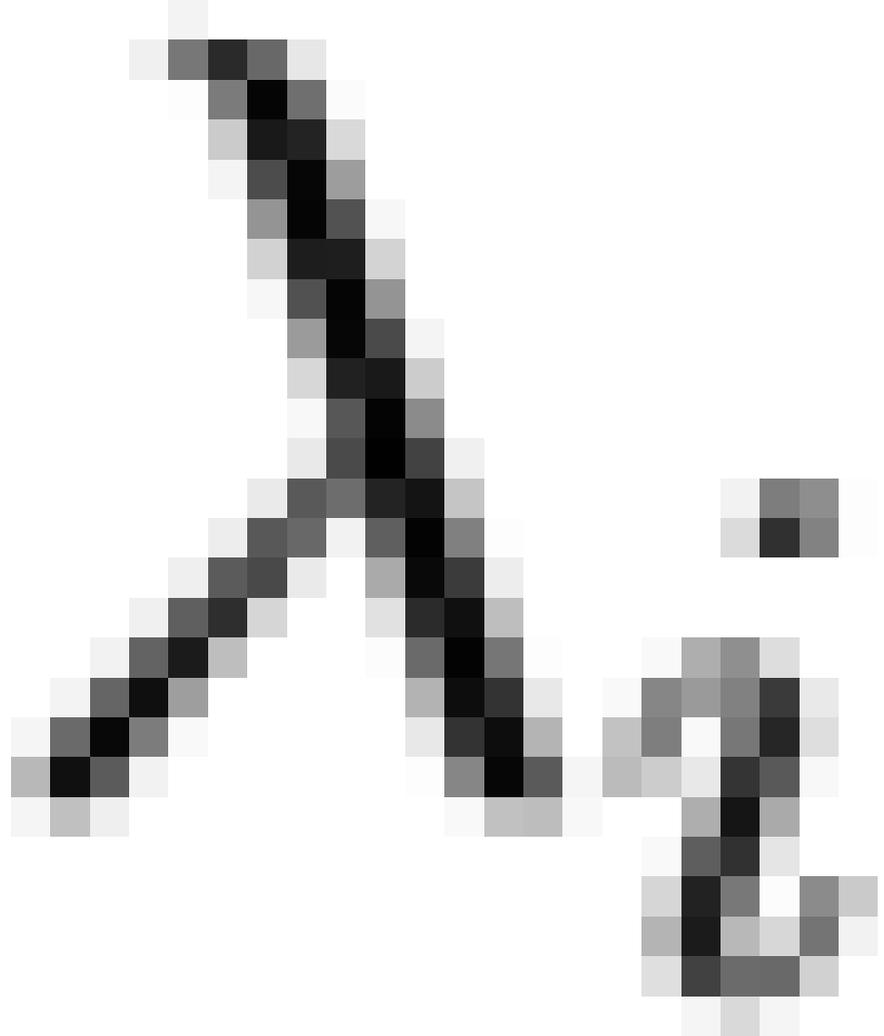


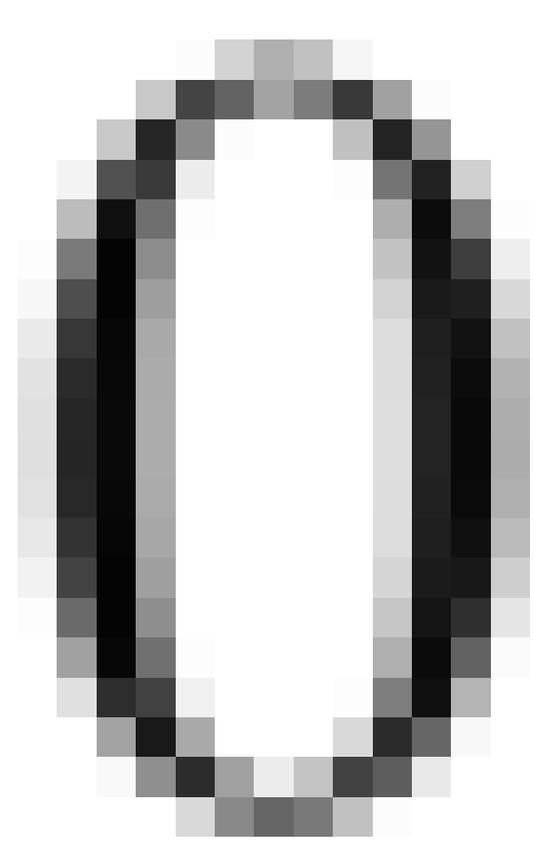
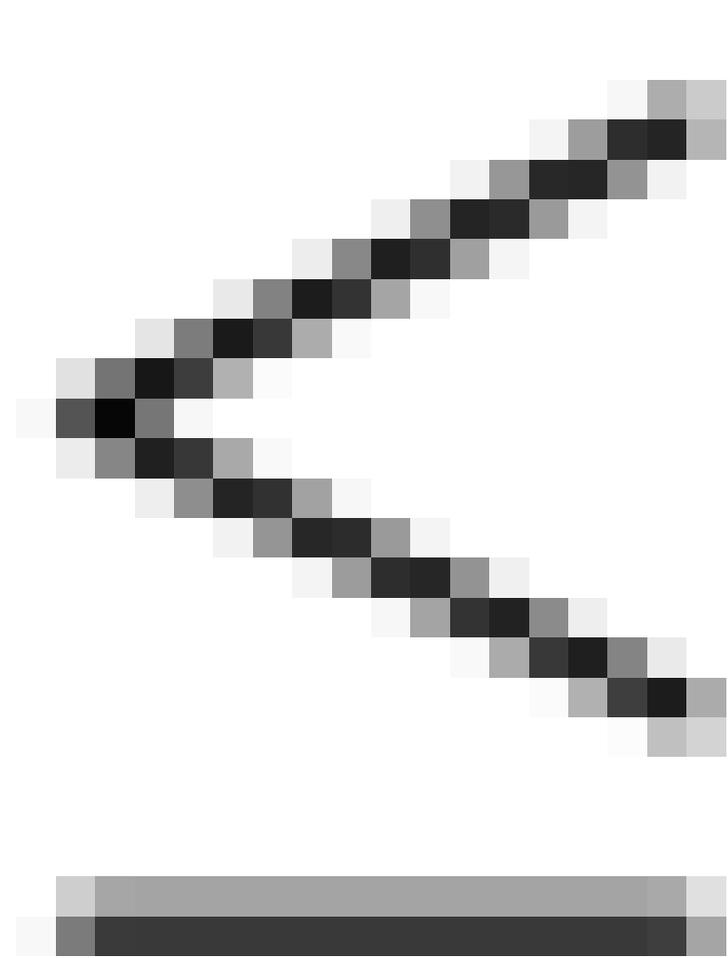
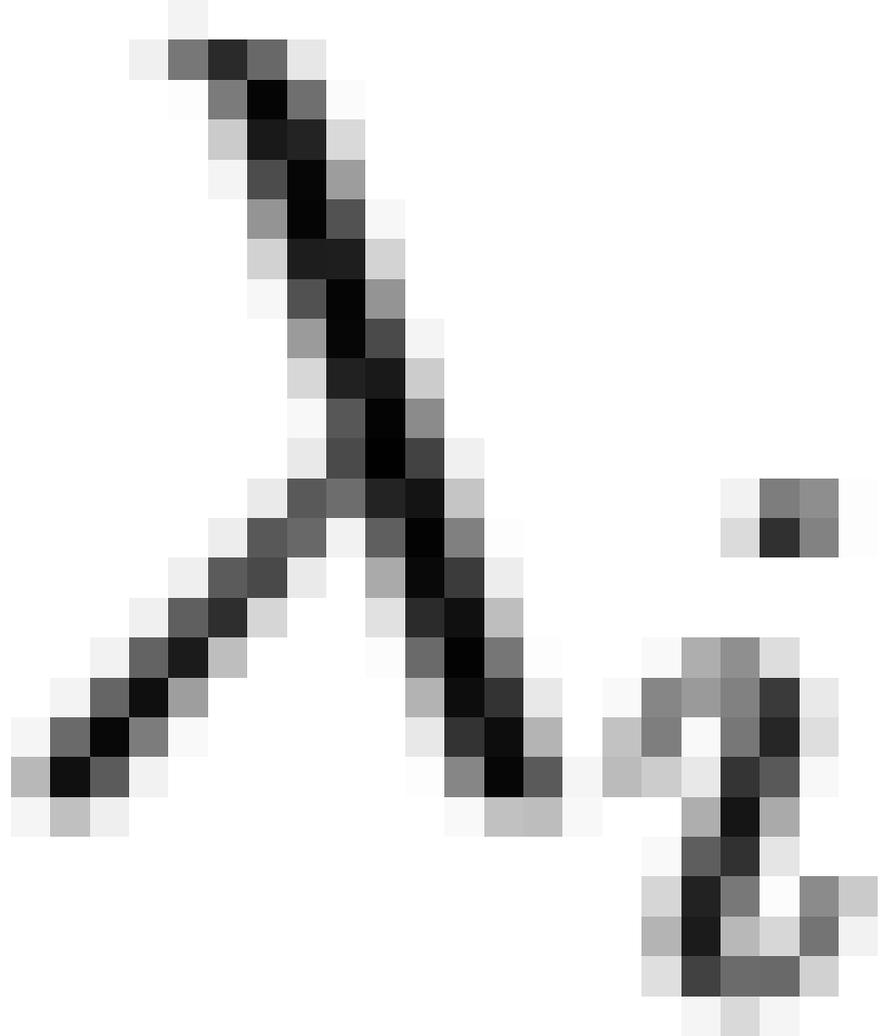
$$\bar{a}x = \lambda^t Ax \leq \lambda^t b = -\beta + \sum_{j: \bar{a}_j < 0} \bar{a}_j U_j + \sum_{j: \bar{a}_j > 0} \bar{a}_j L_j,$$

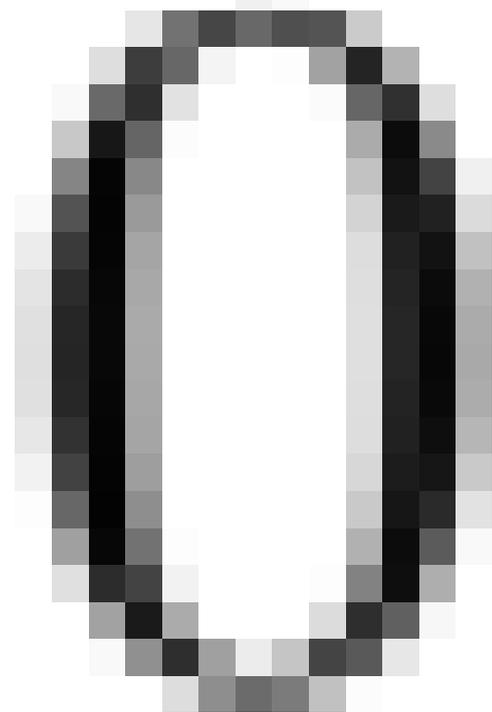
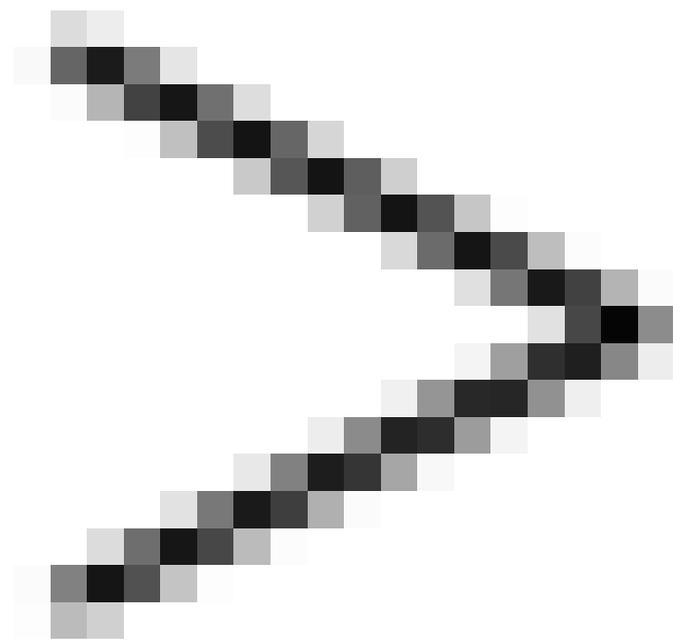
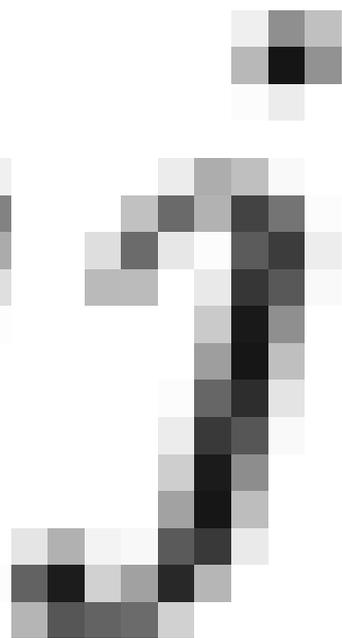
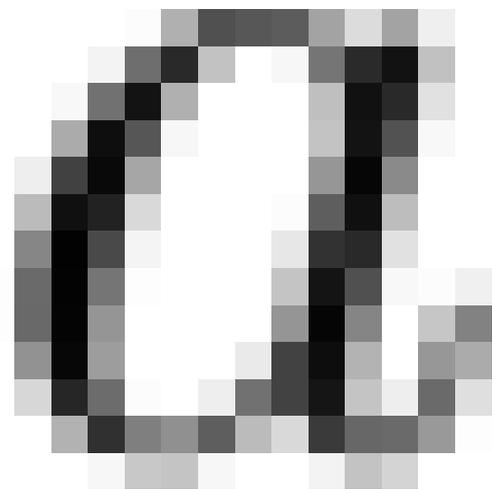


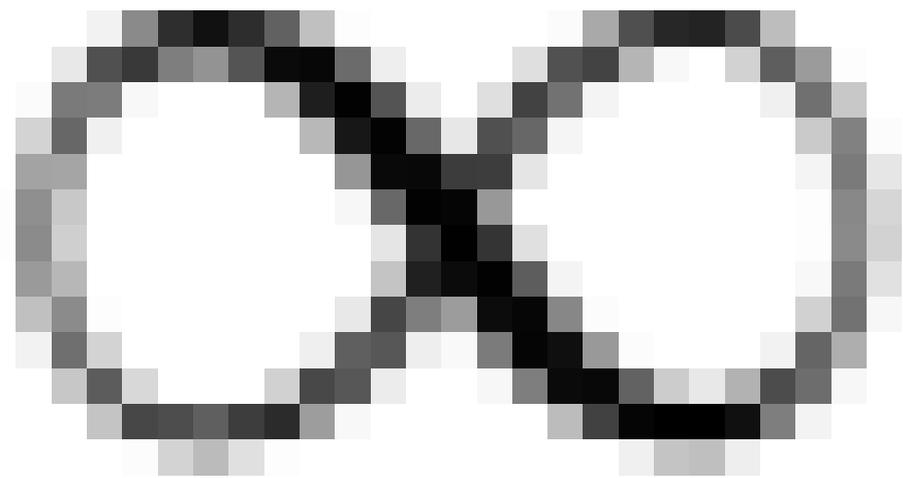


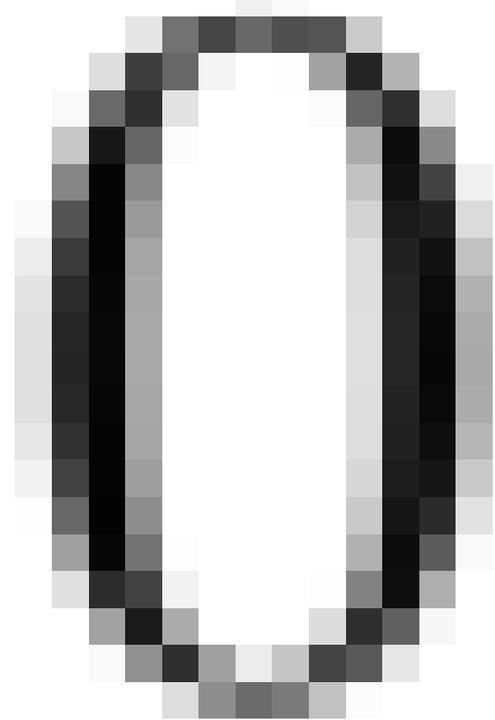
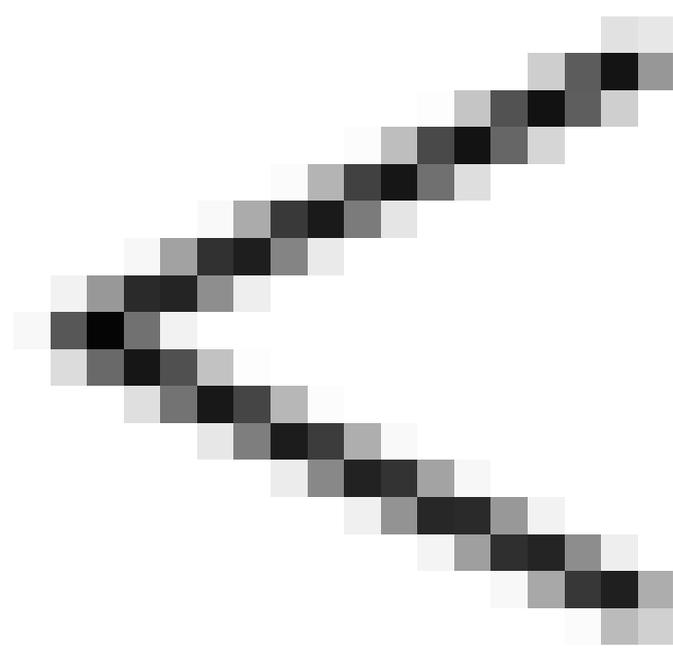
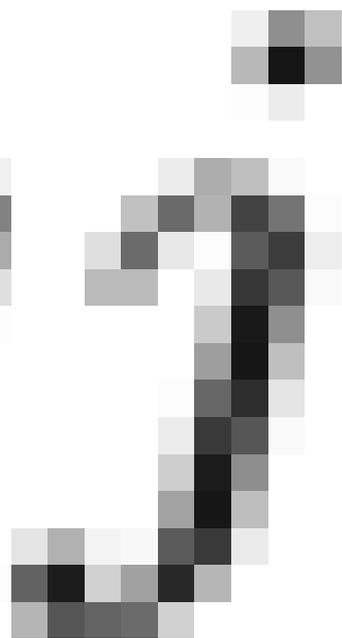
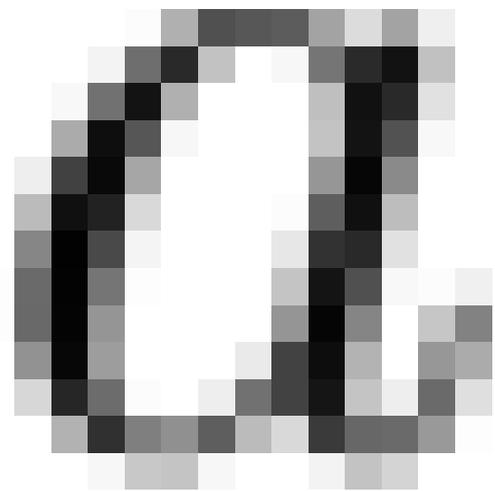
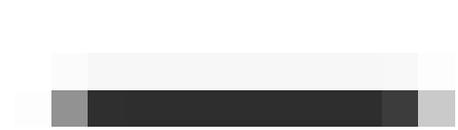


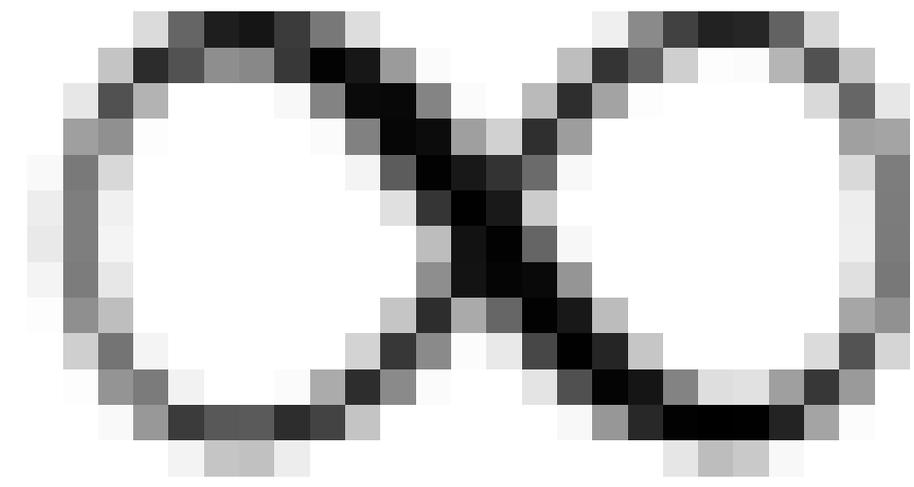
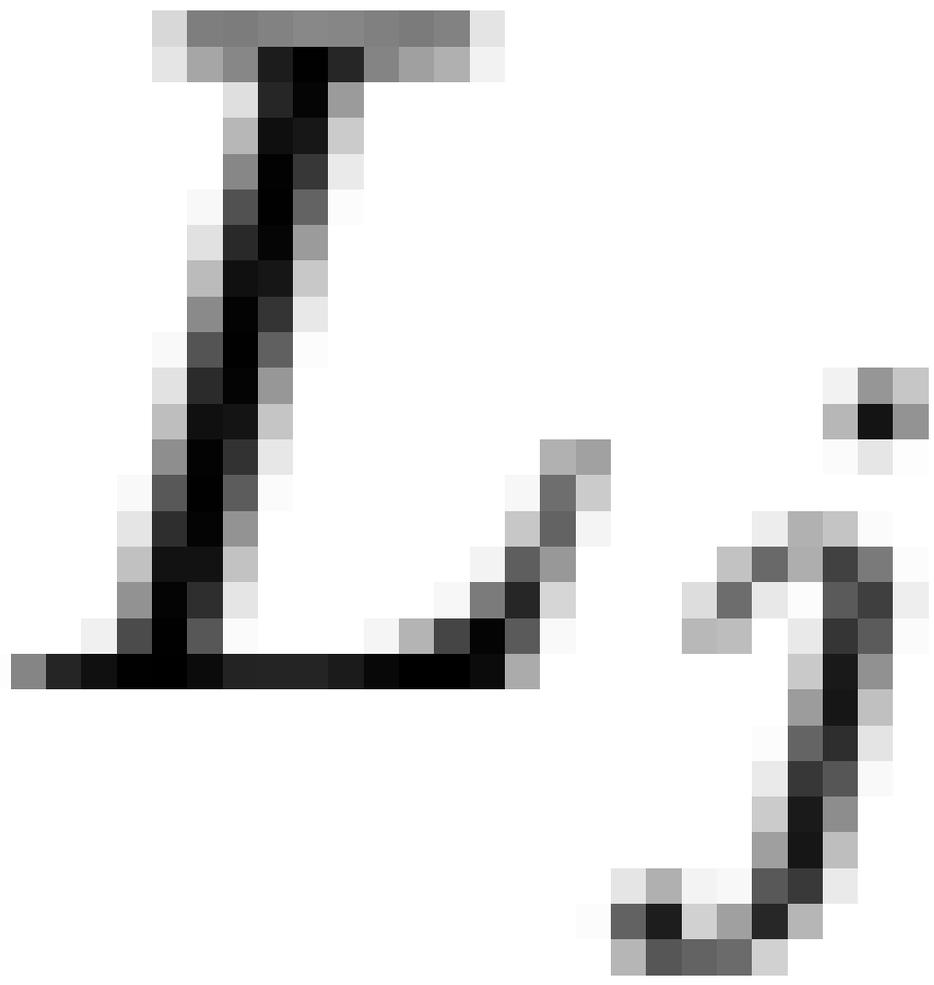


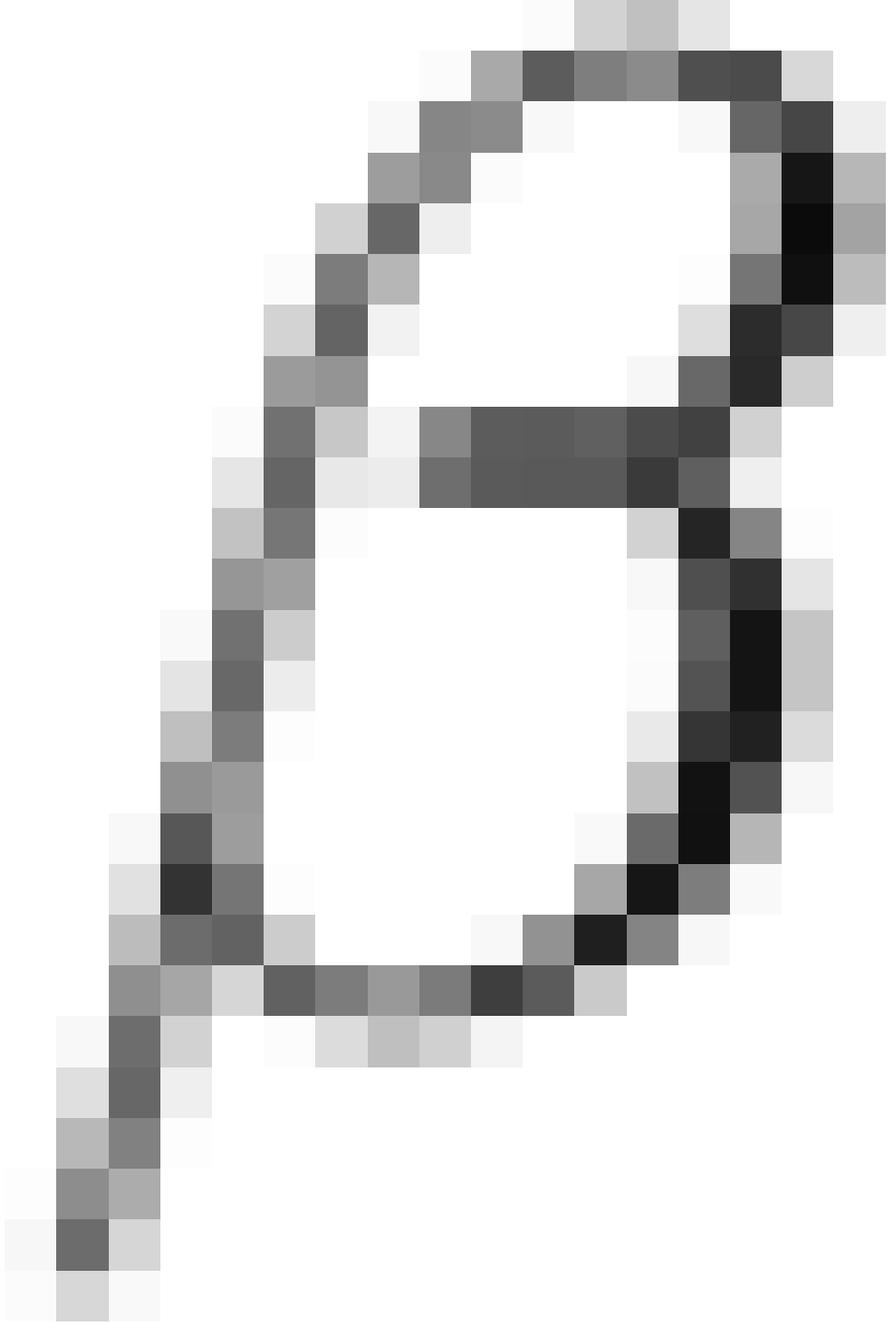


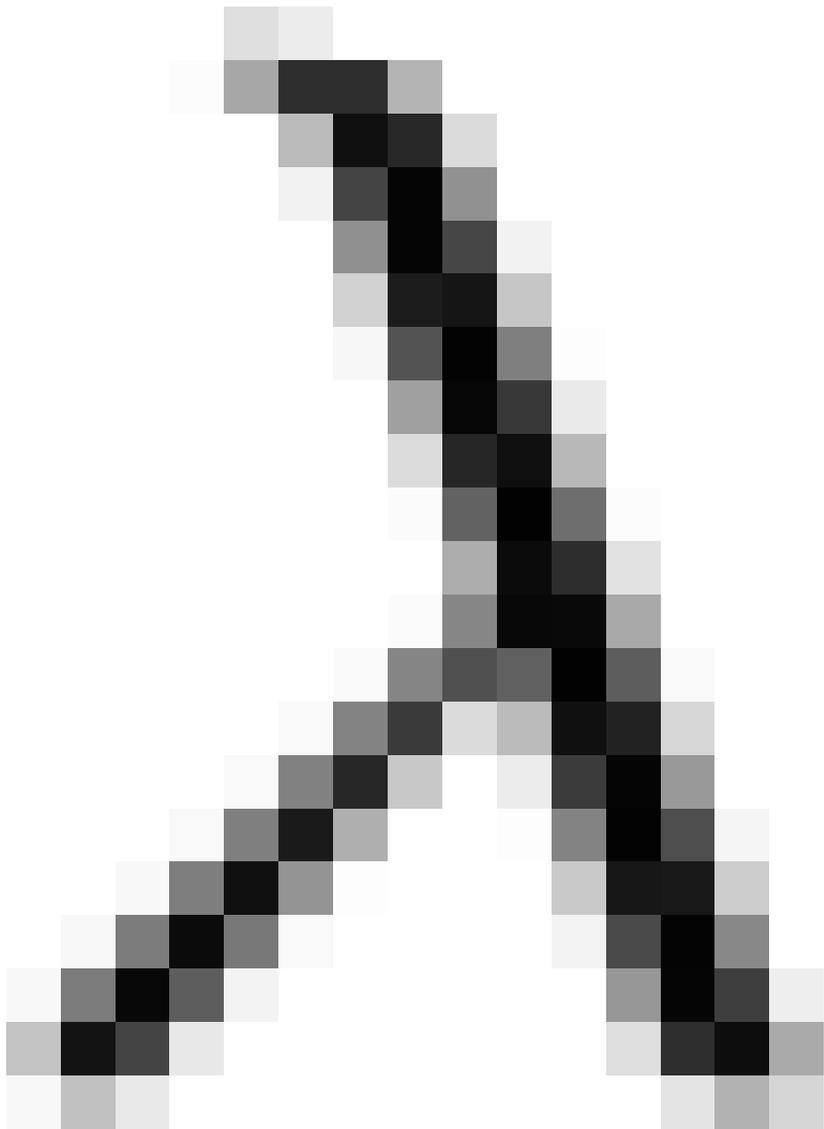












minimize $c'x$

subject to $Ax \geq b$

$x \geq 0$

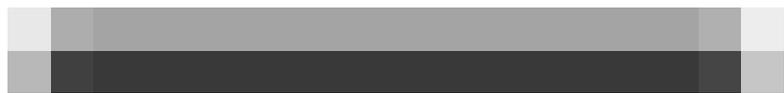
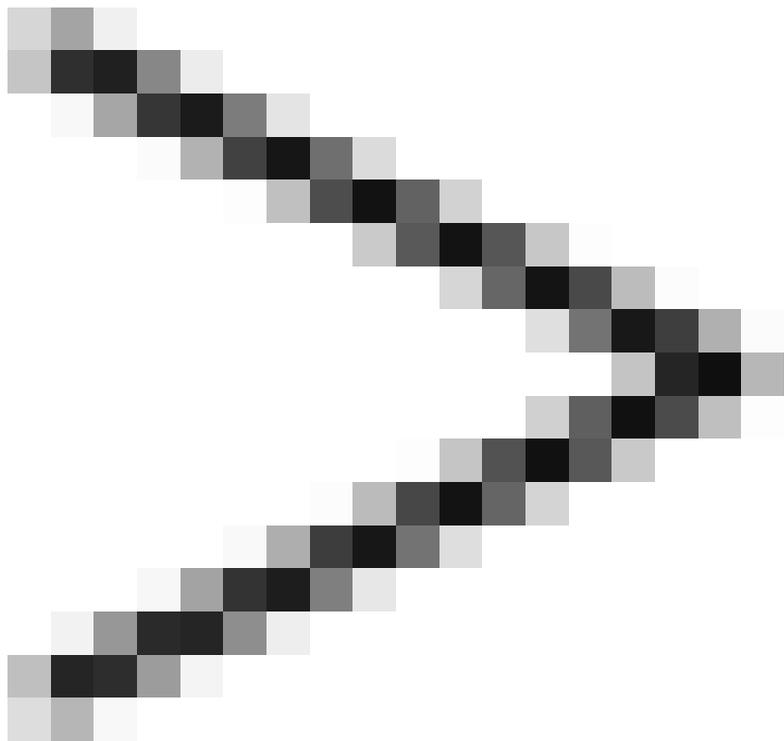
maximize

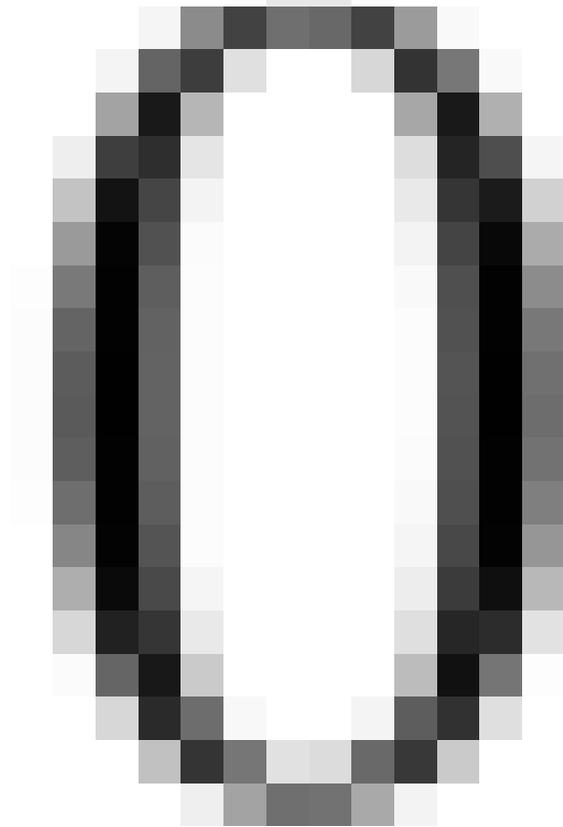
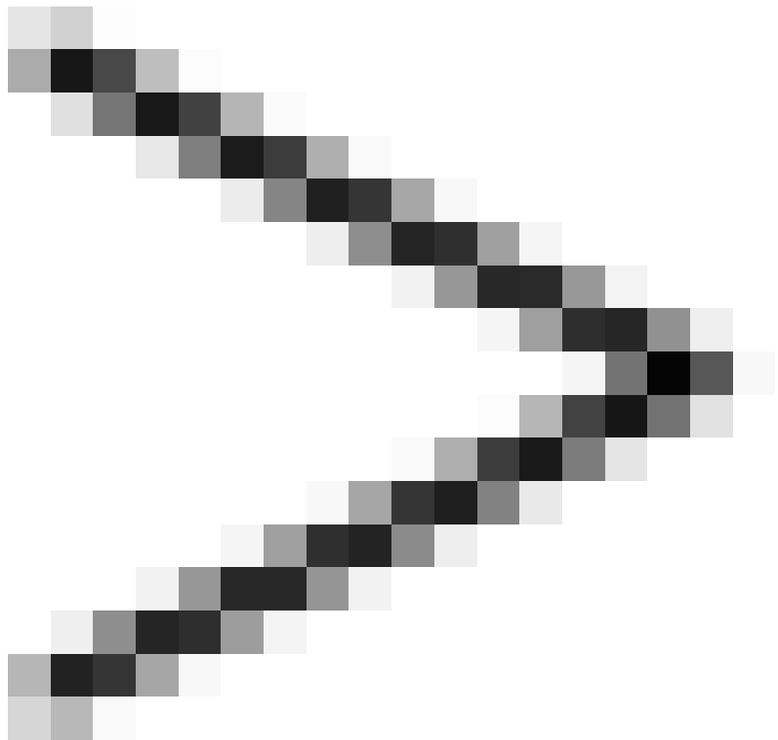
$$b'y$$

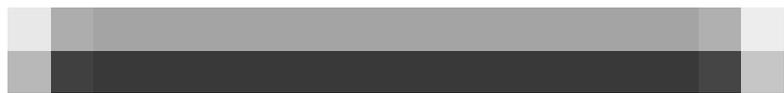
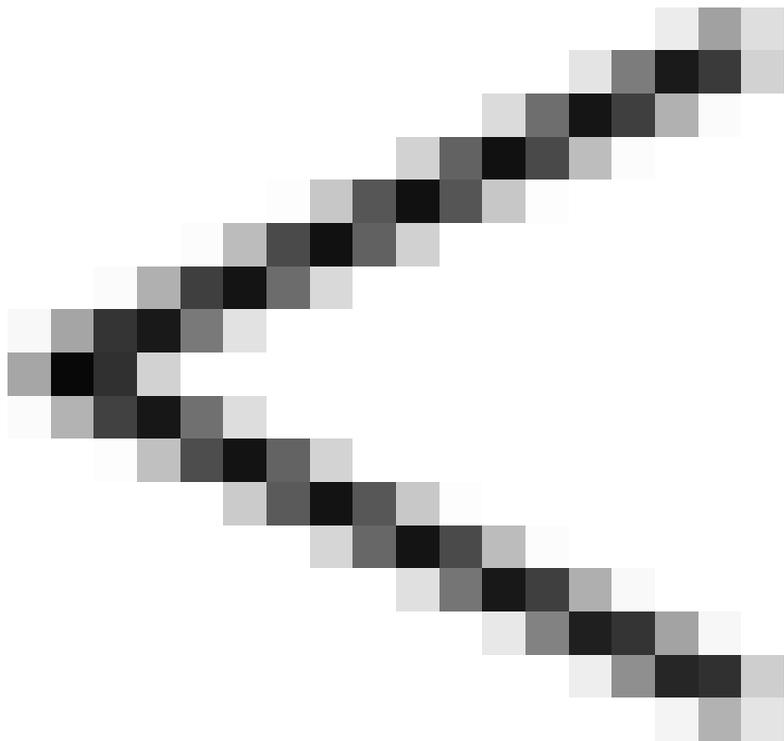
subject to

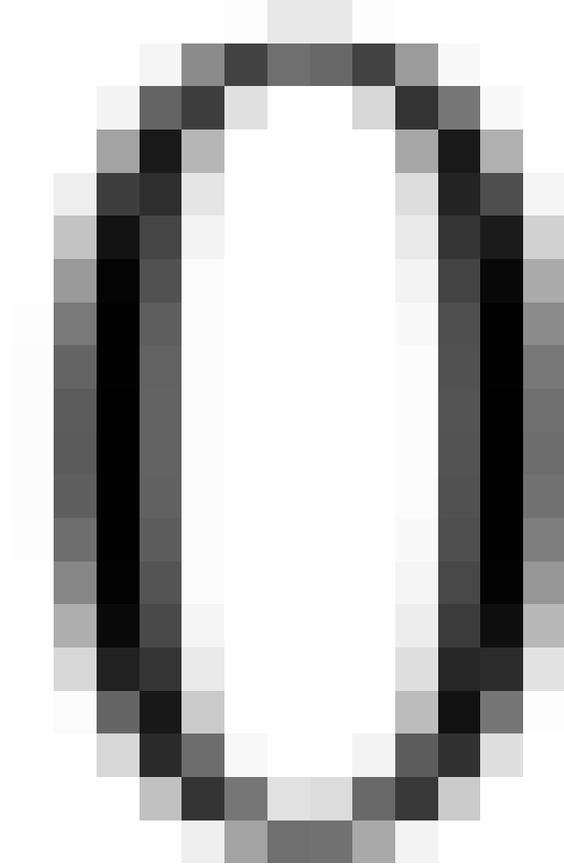
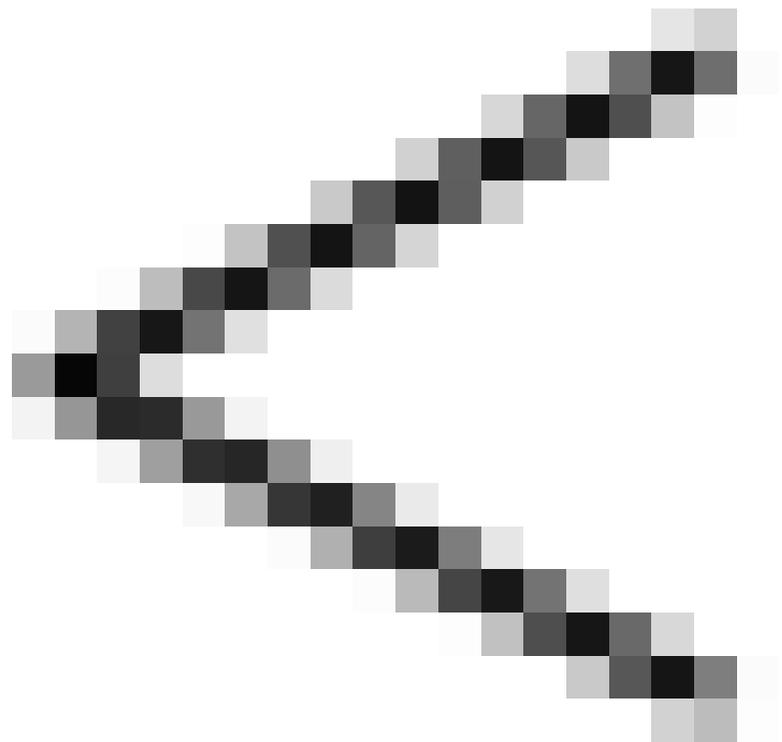
$$A'y \leq c$$

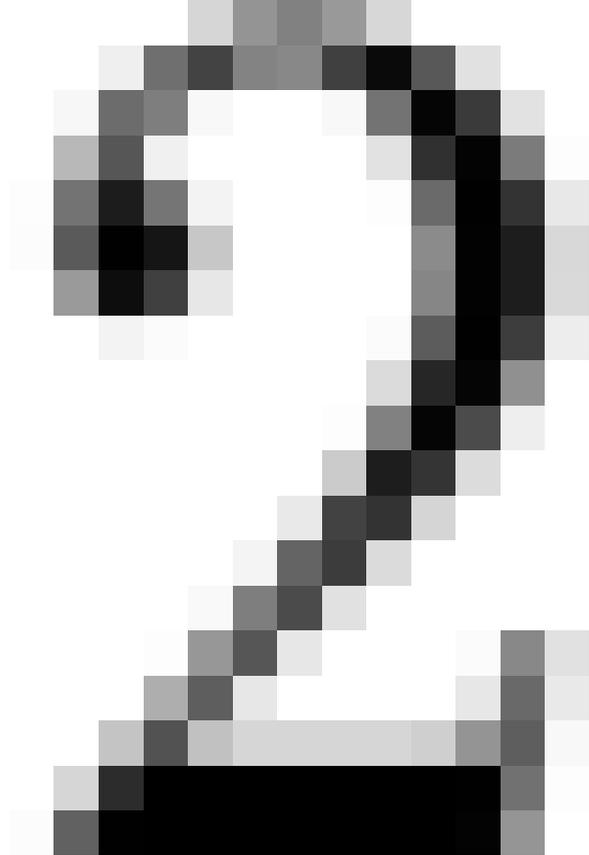
$$y \geq 0$$

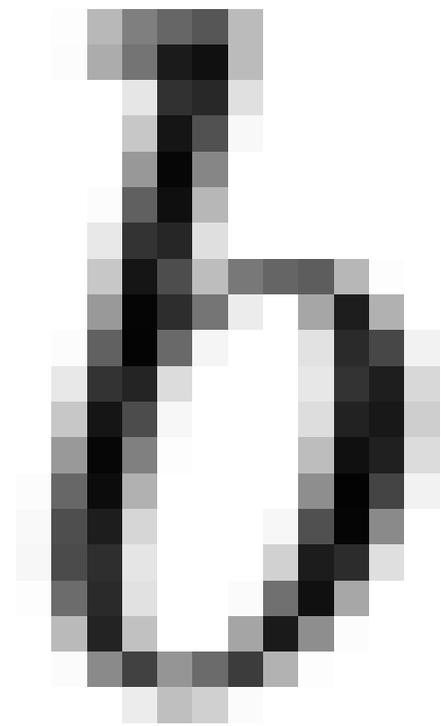
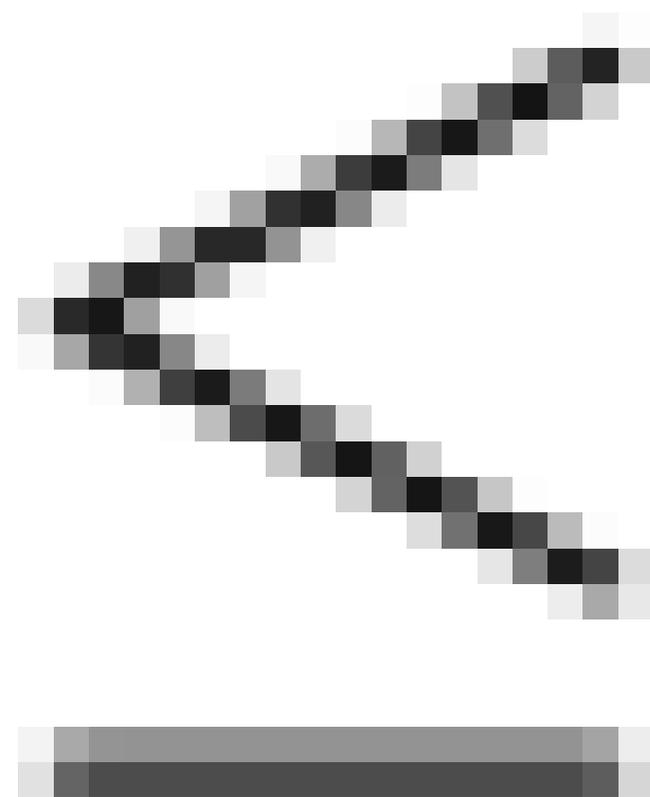
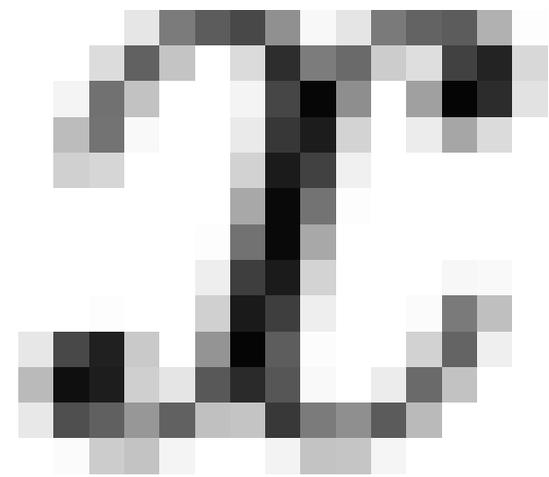
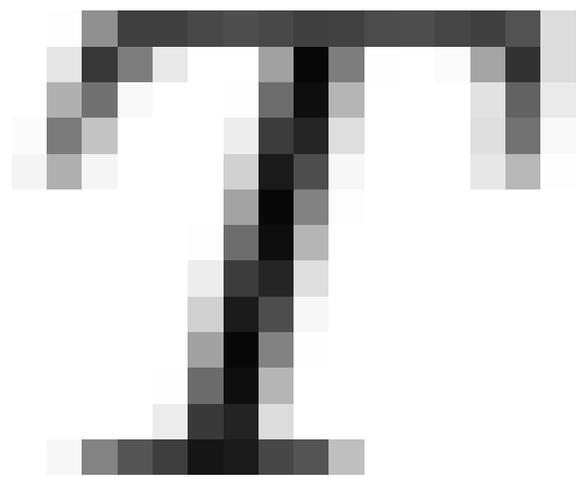
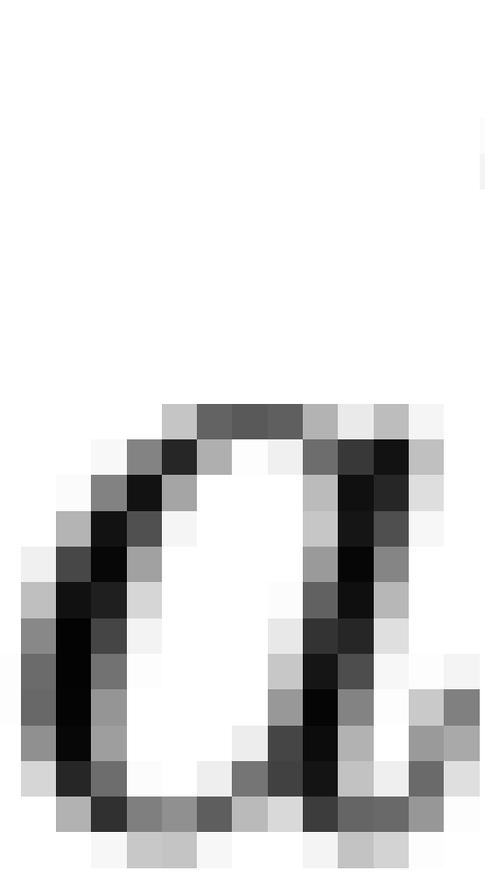


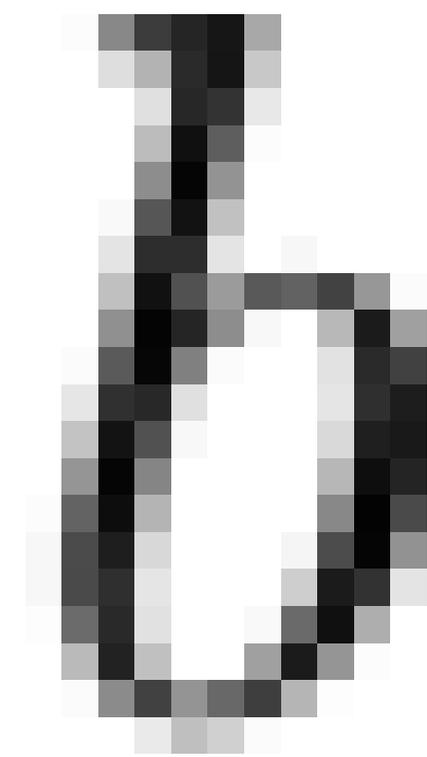
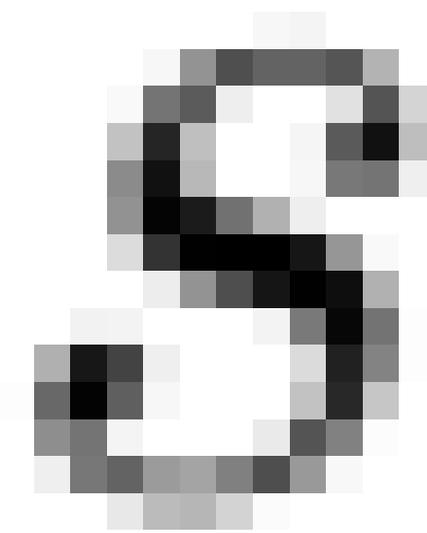
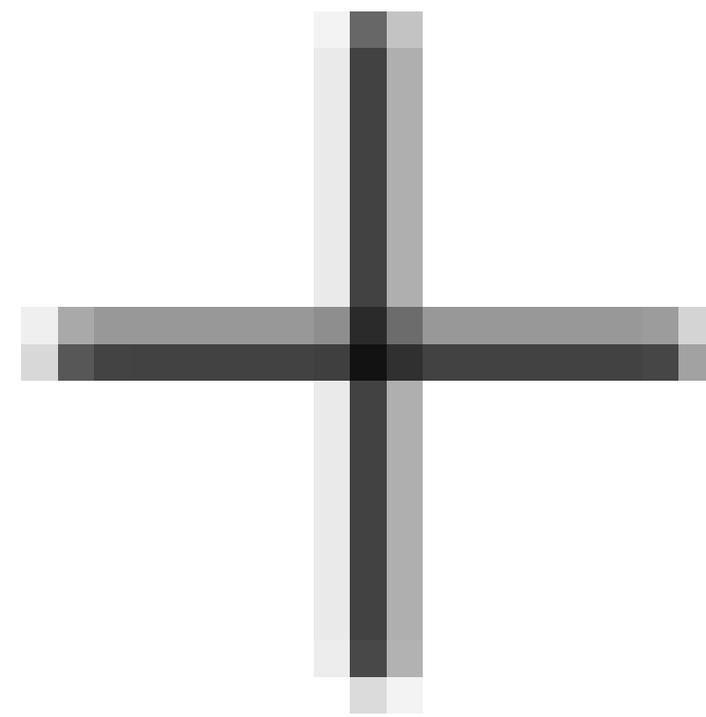
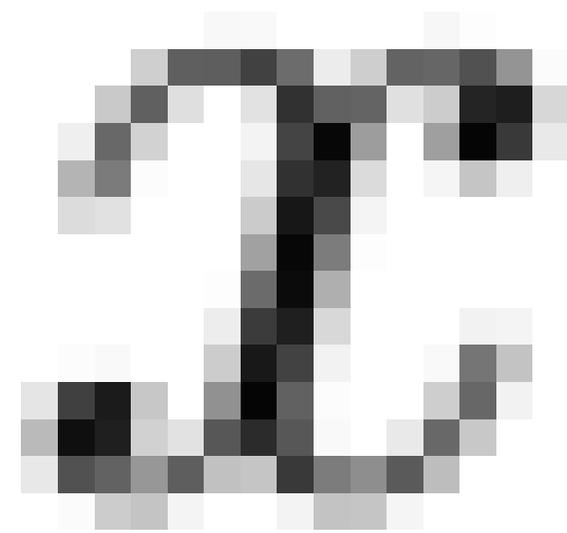
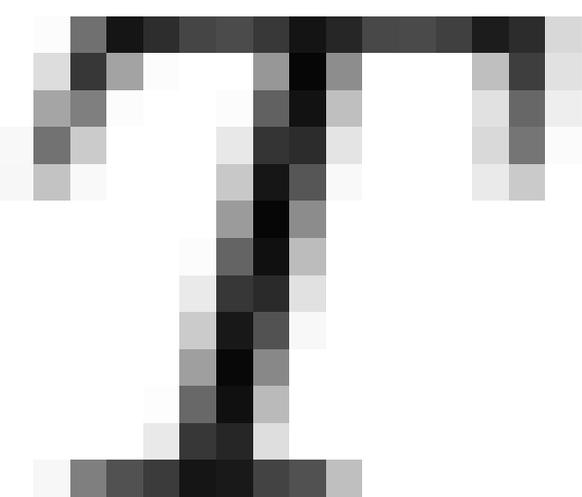
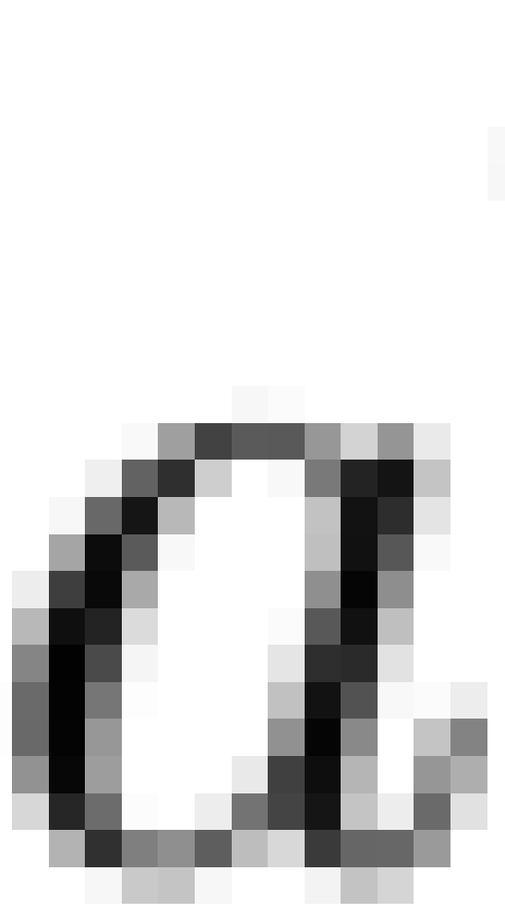


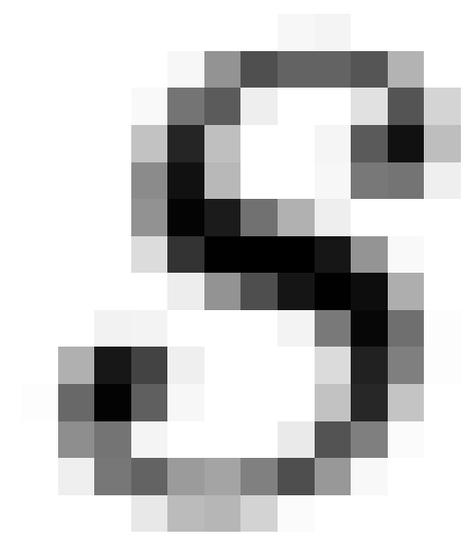
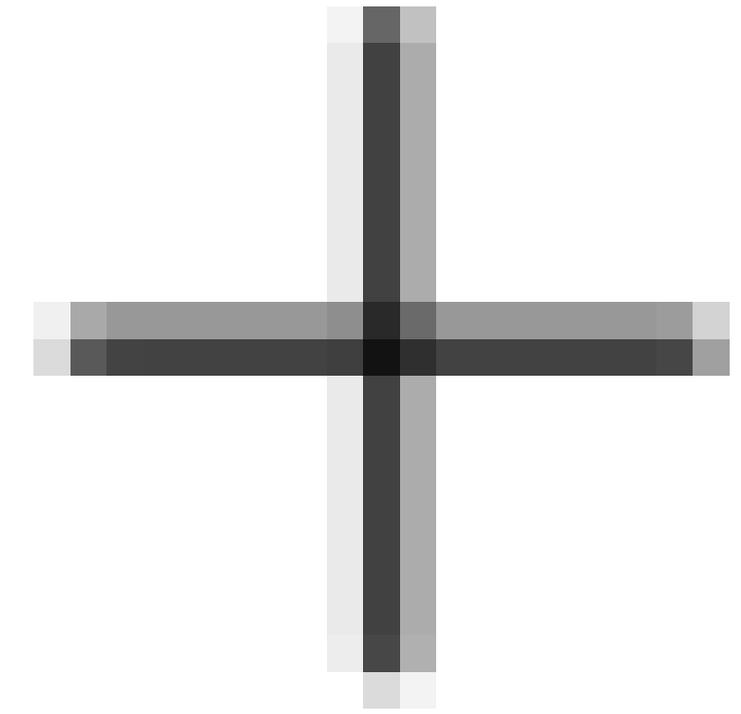
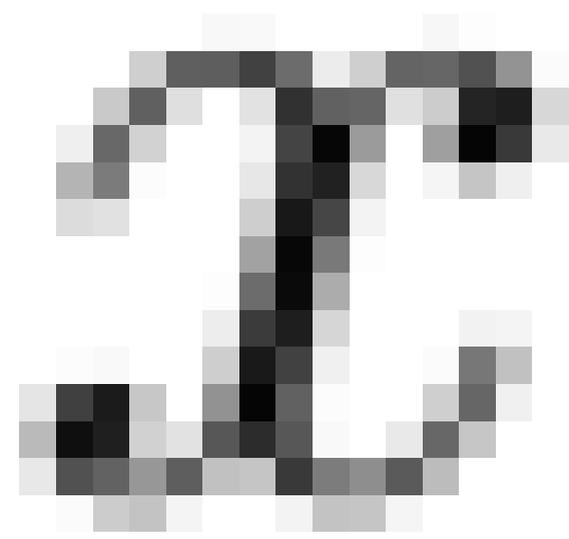
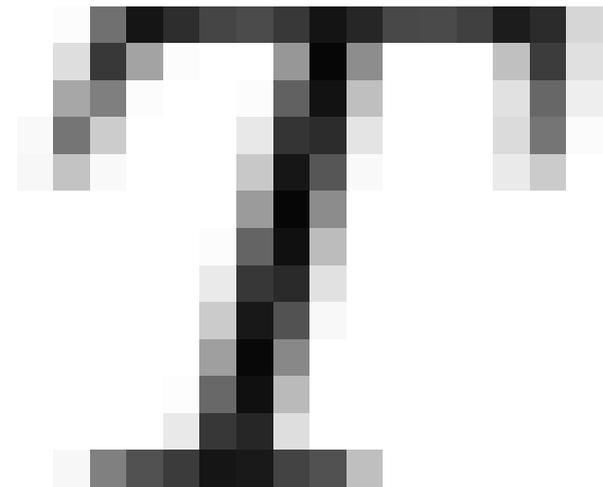
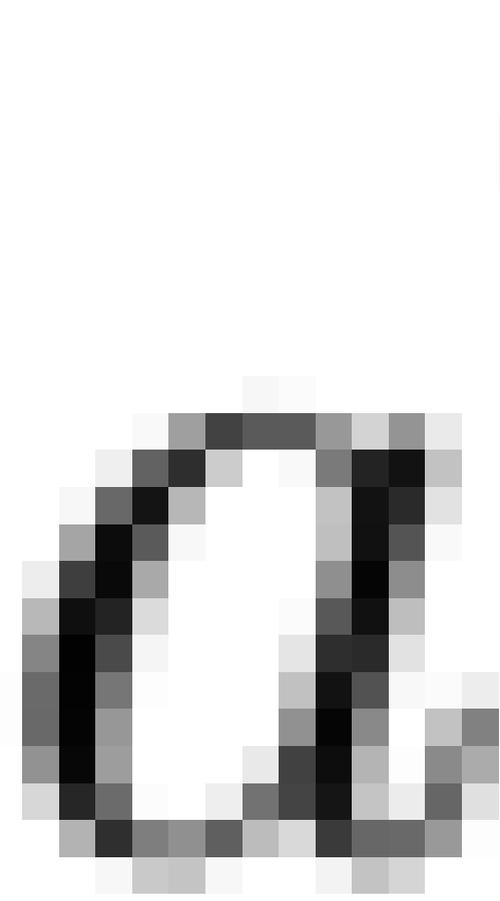


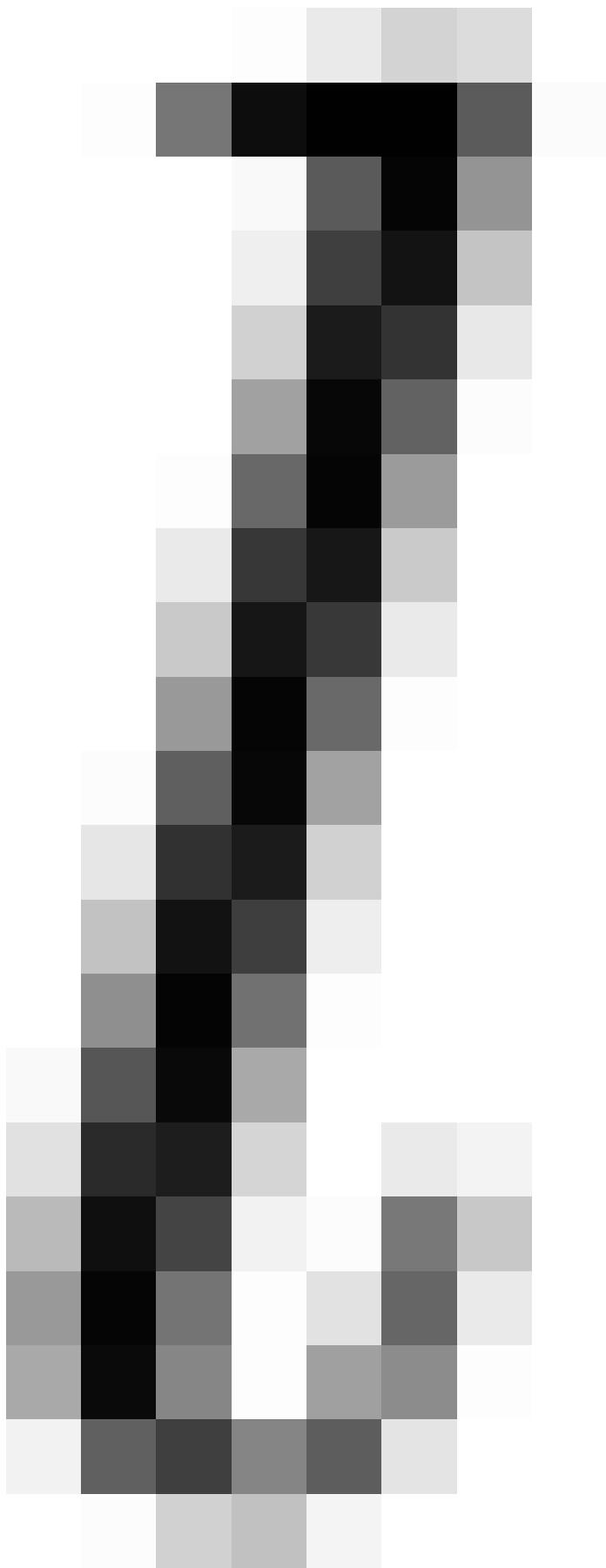


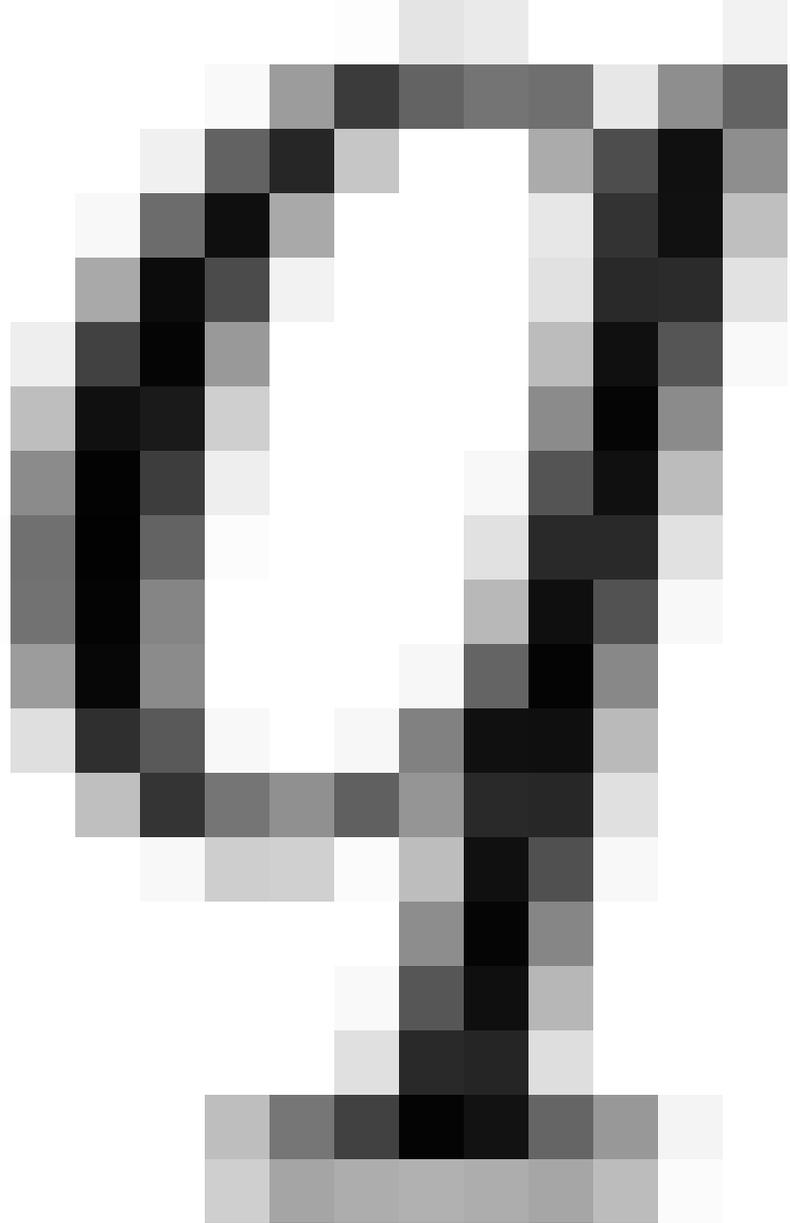


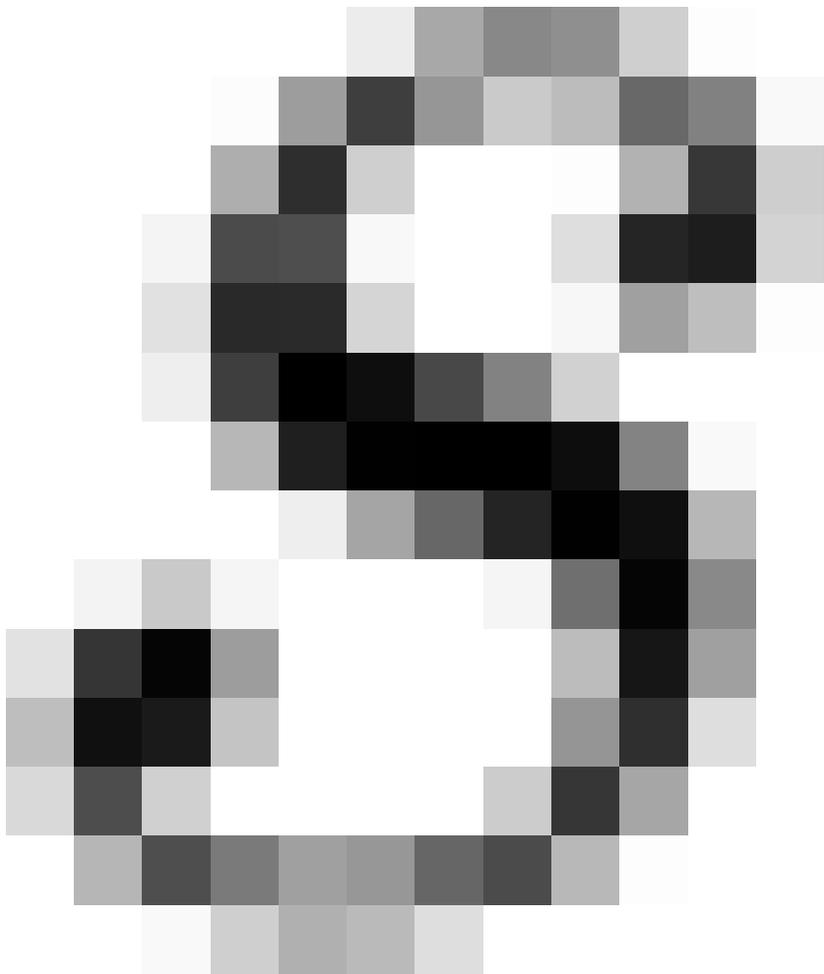


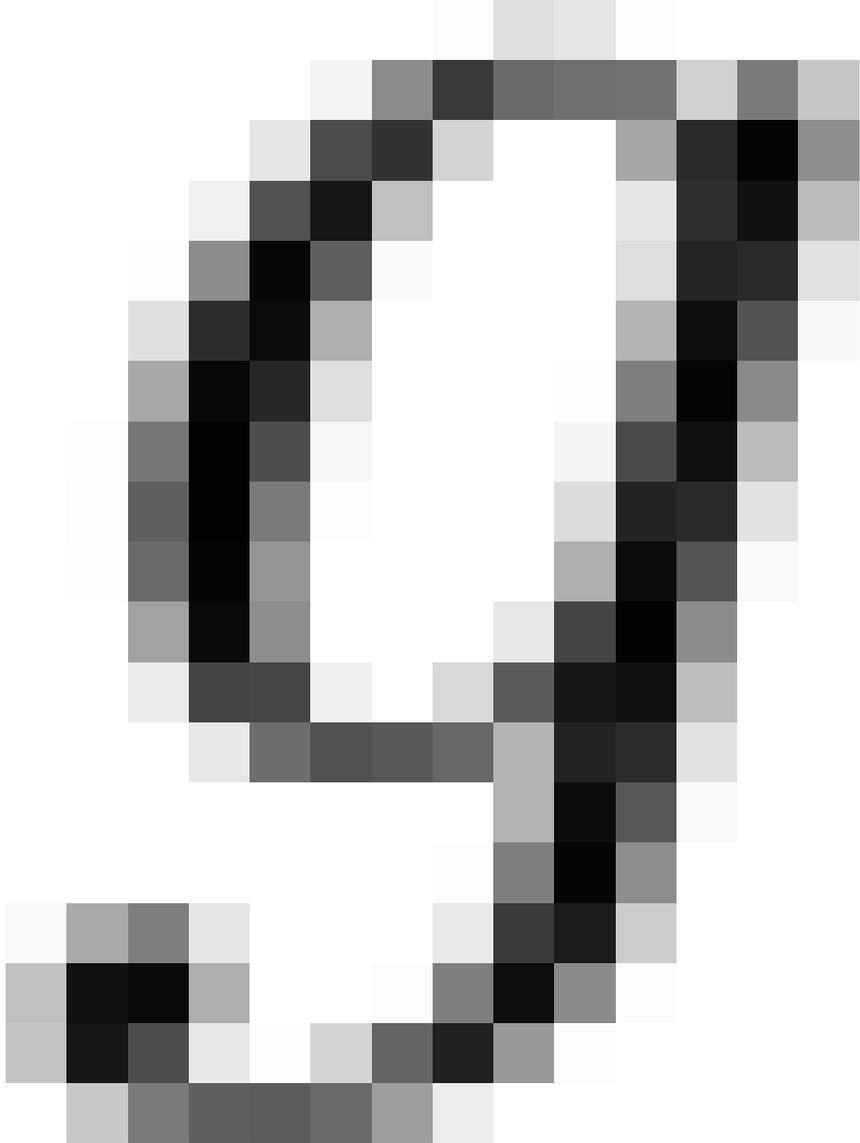


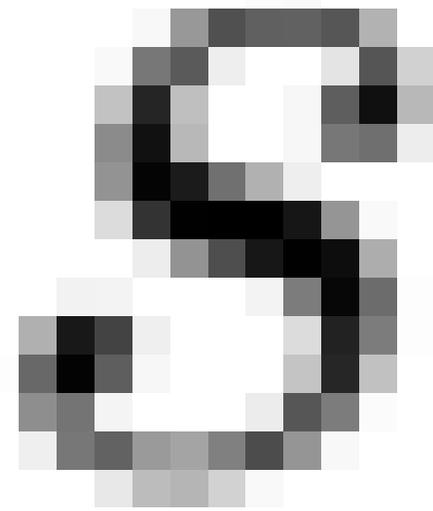
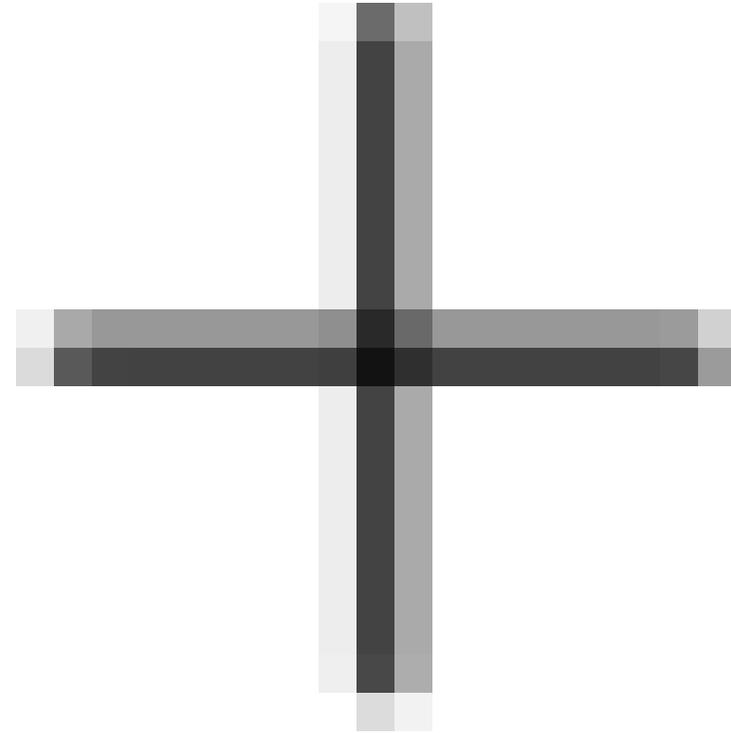
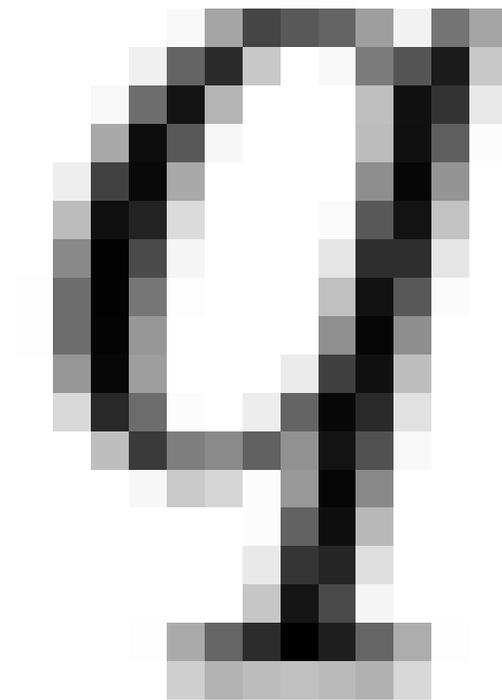
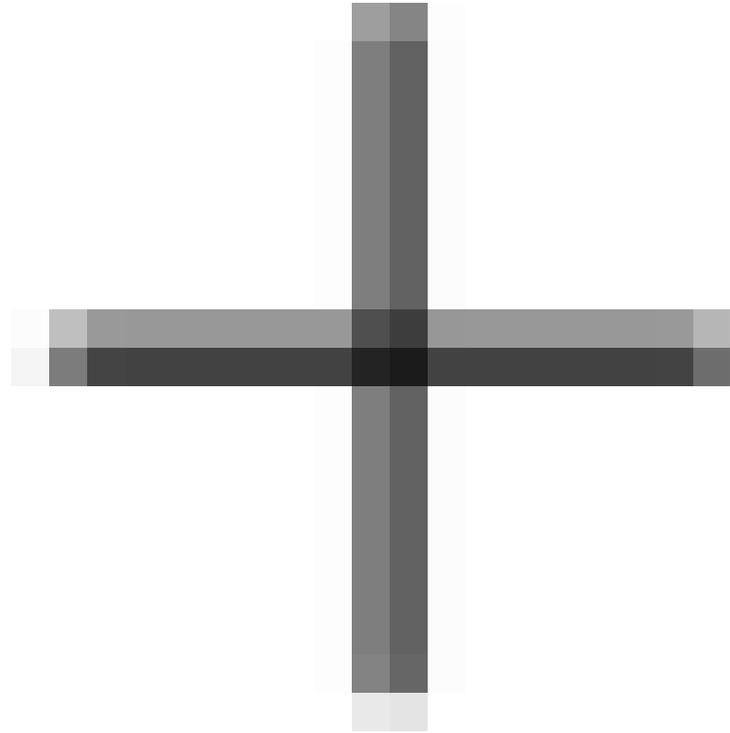
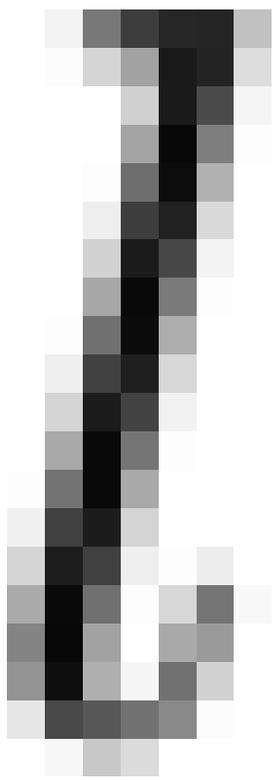


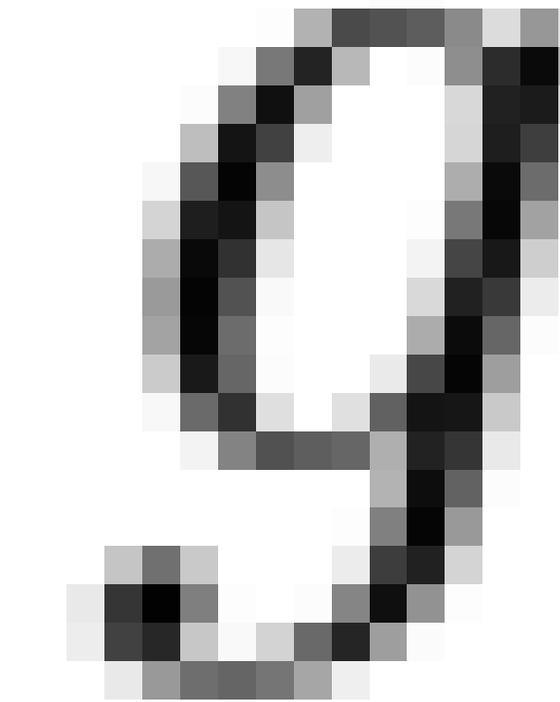
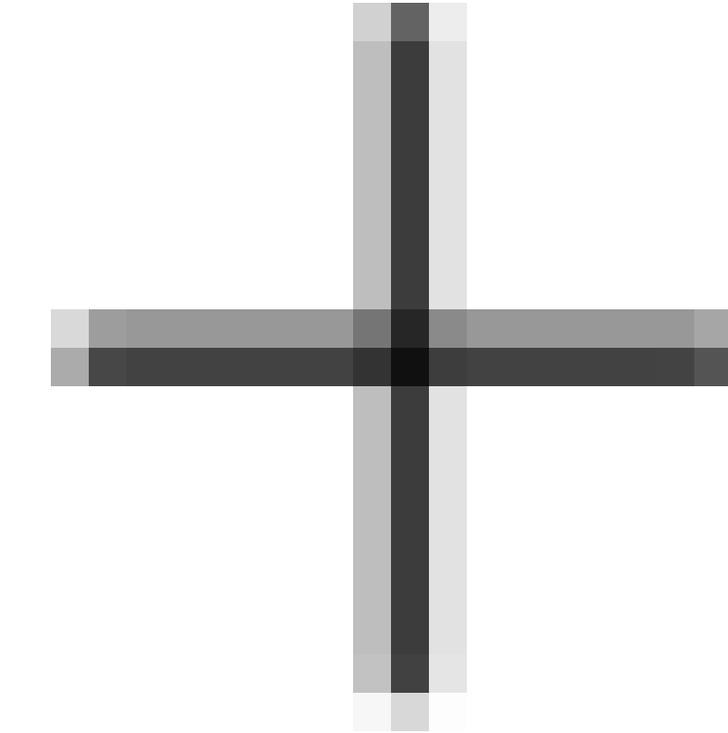
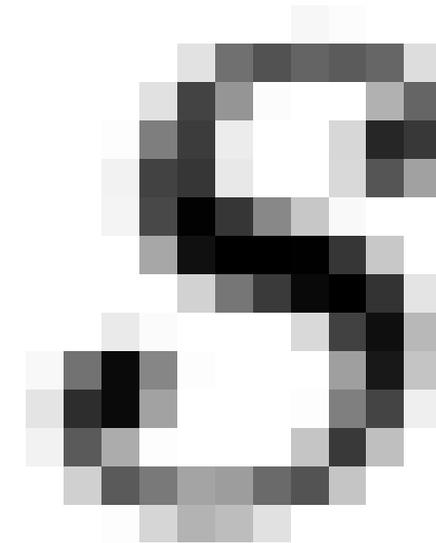
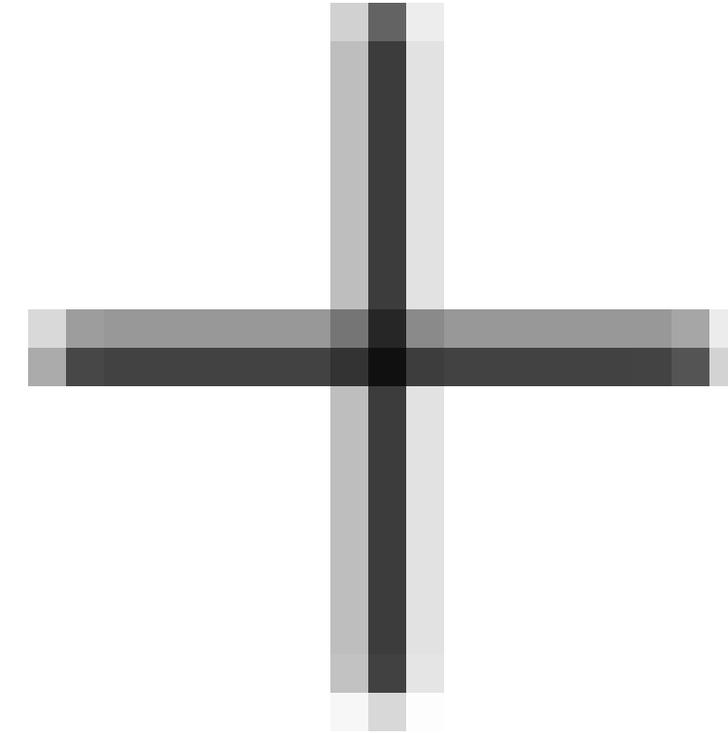
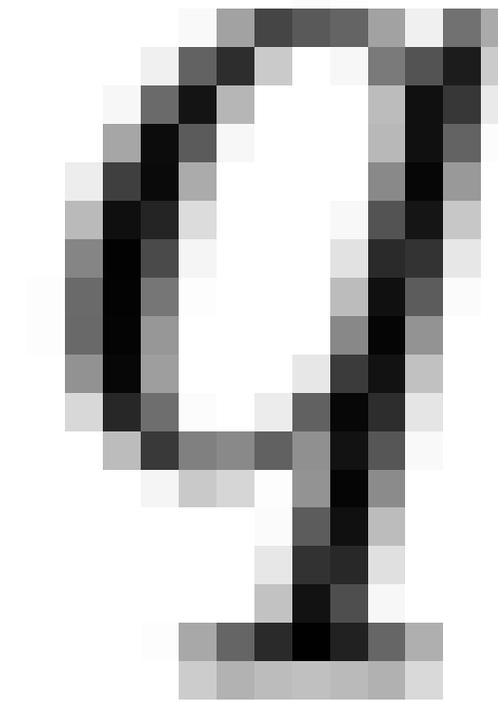
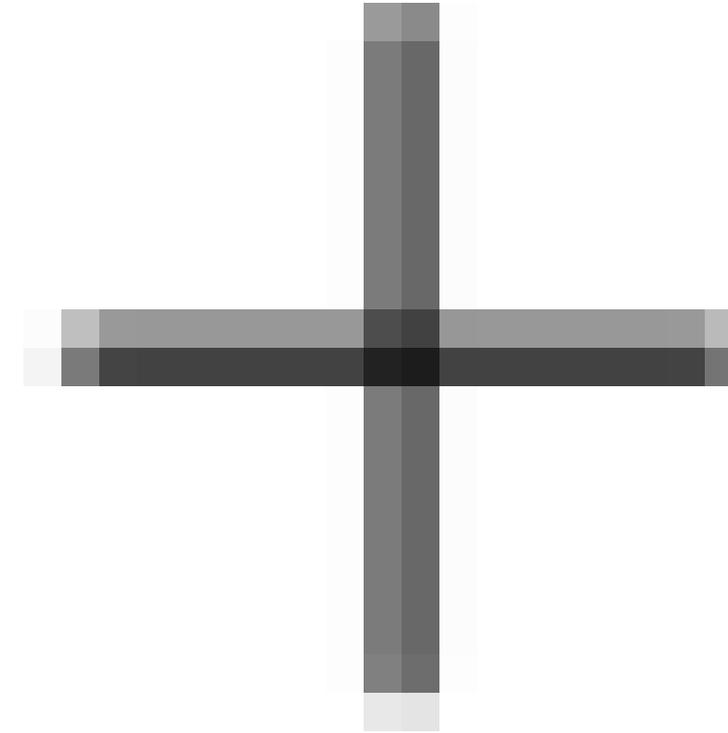
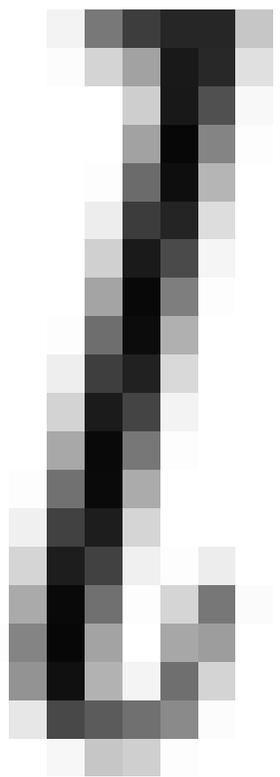




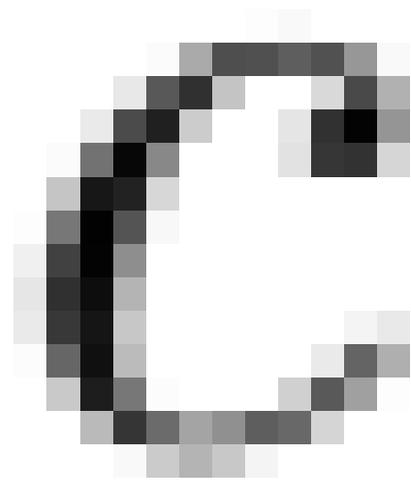
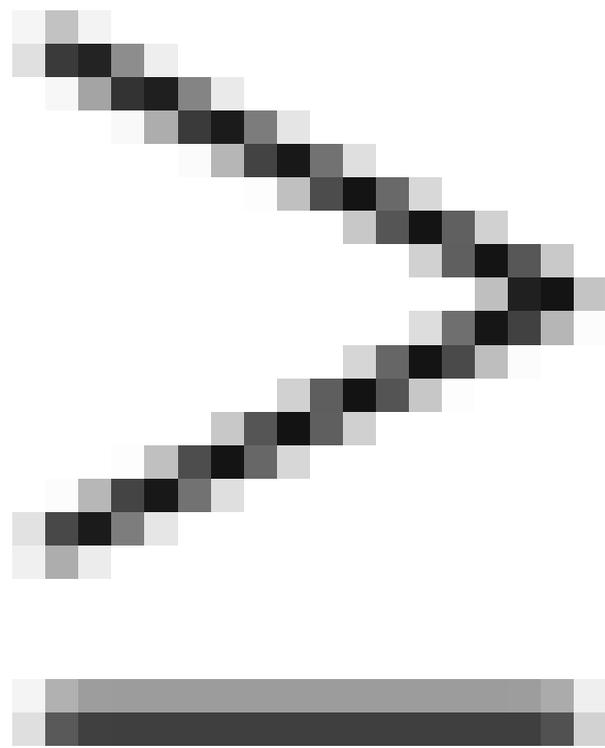
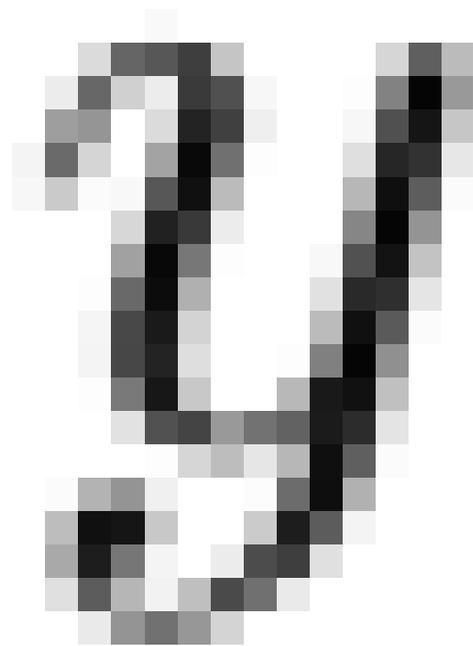
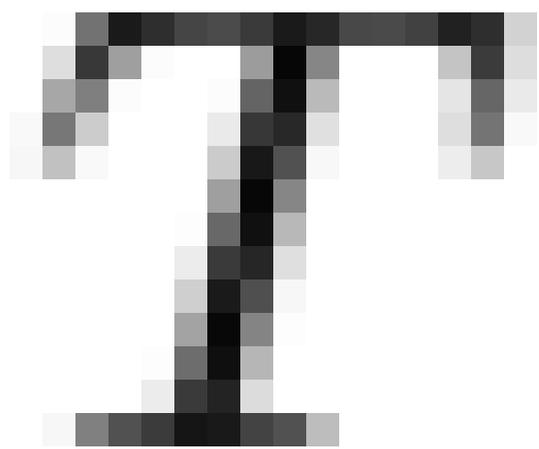
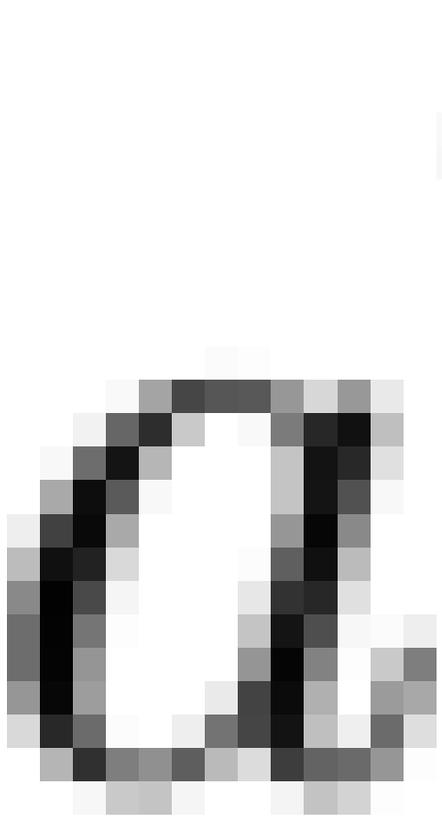


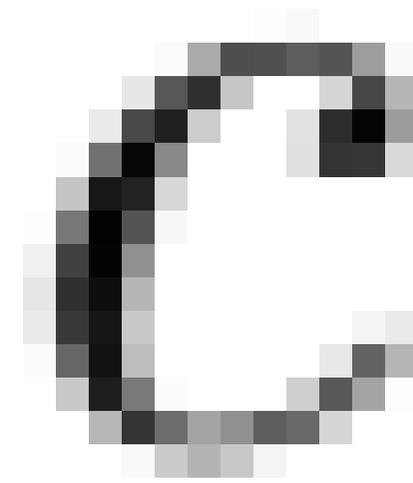
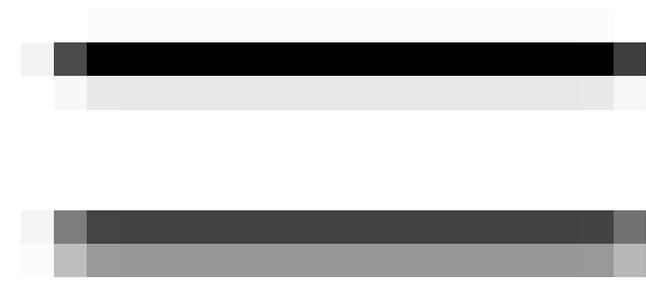
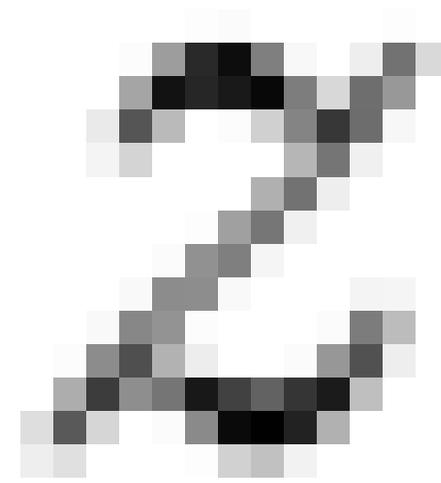
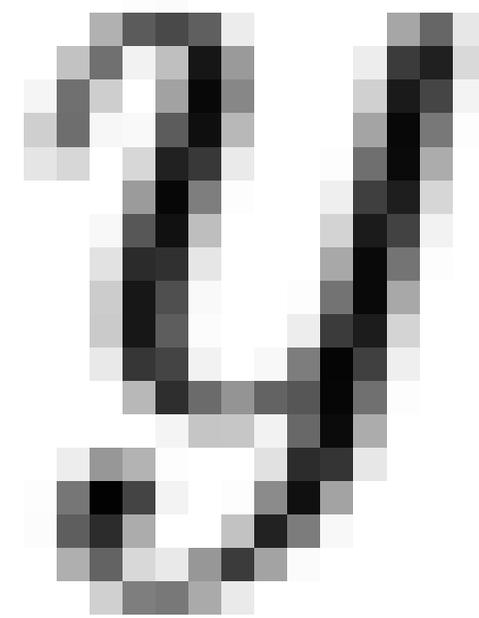
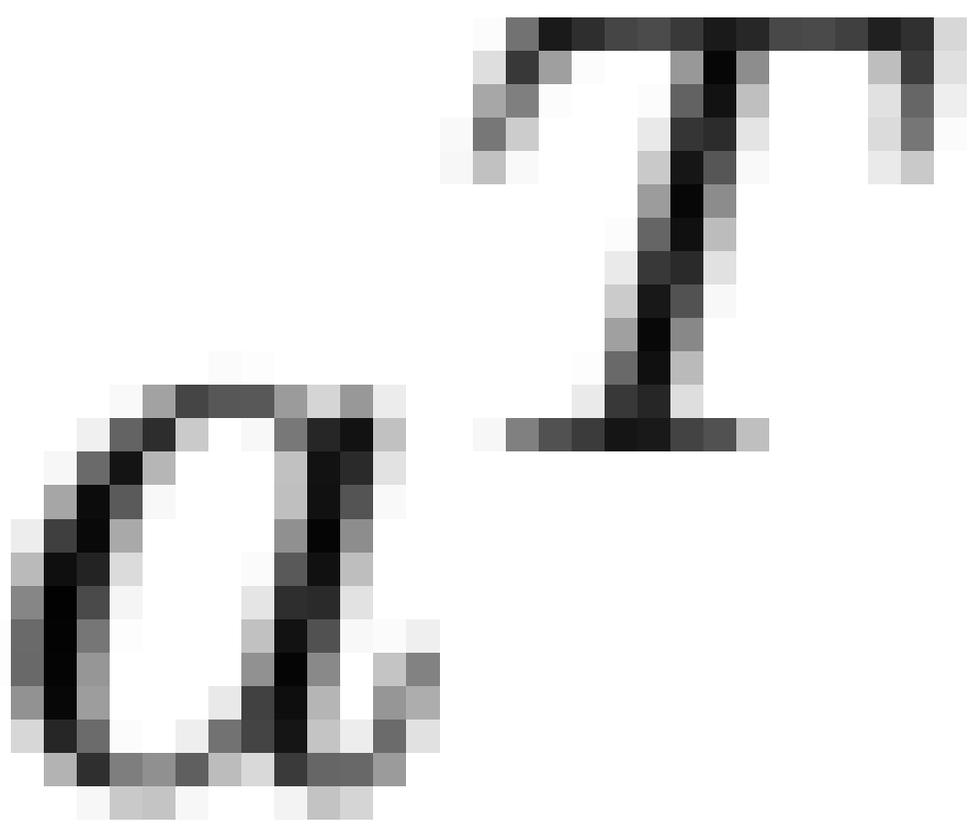


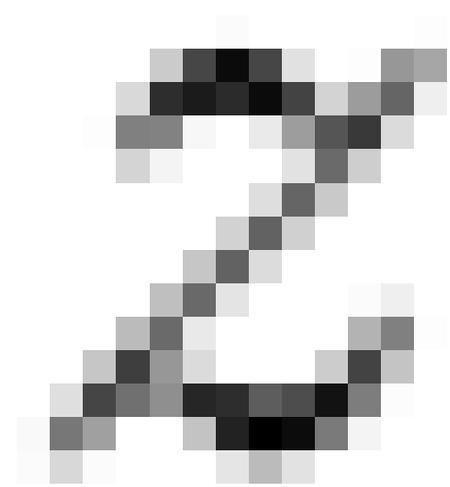
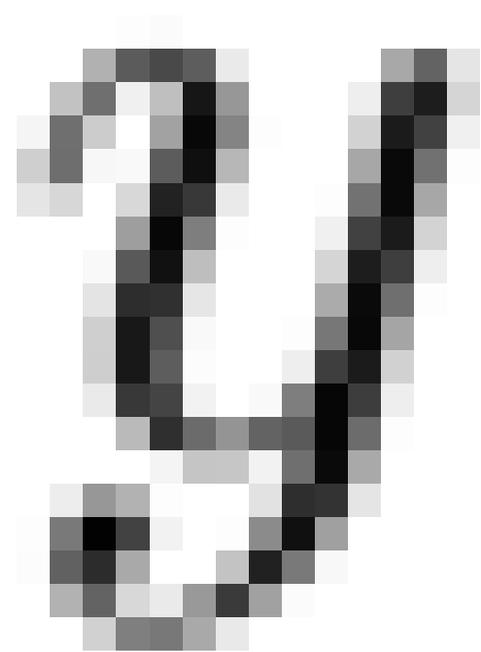
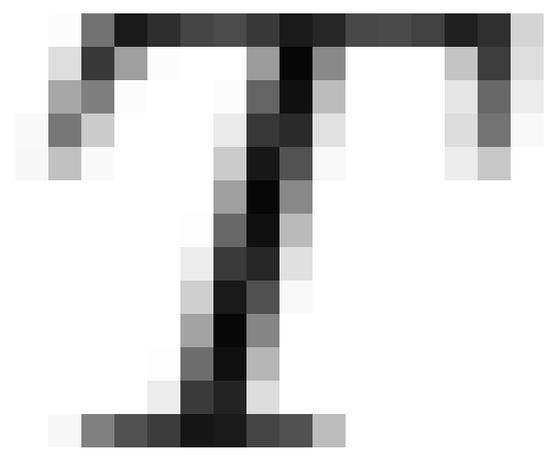
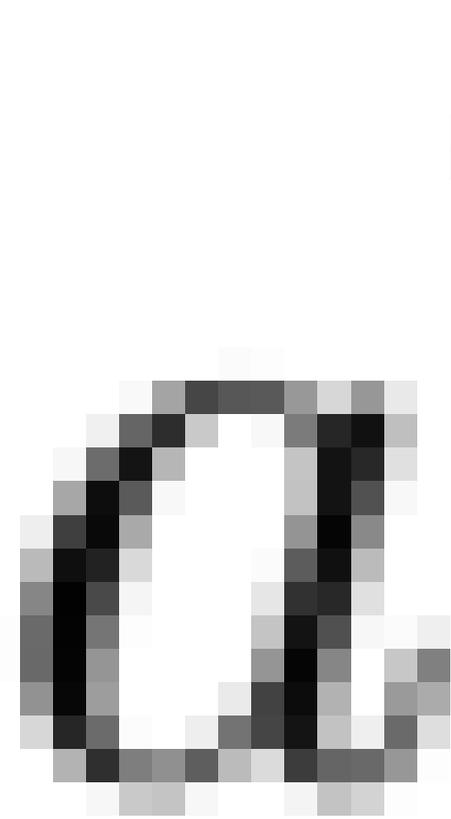


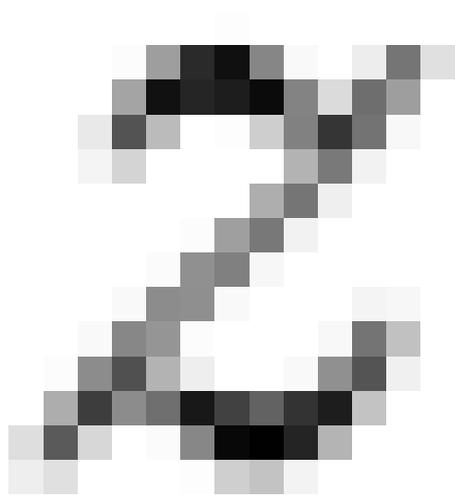


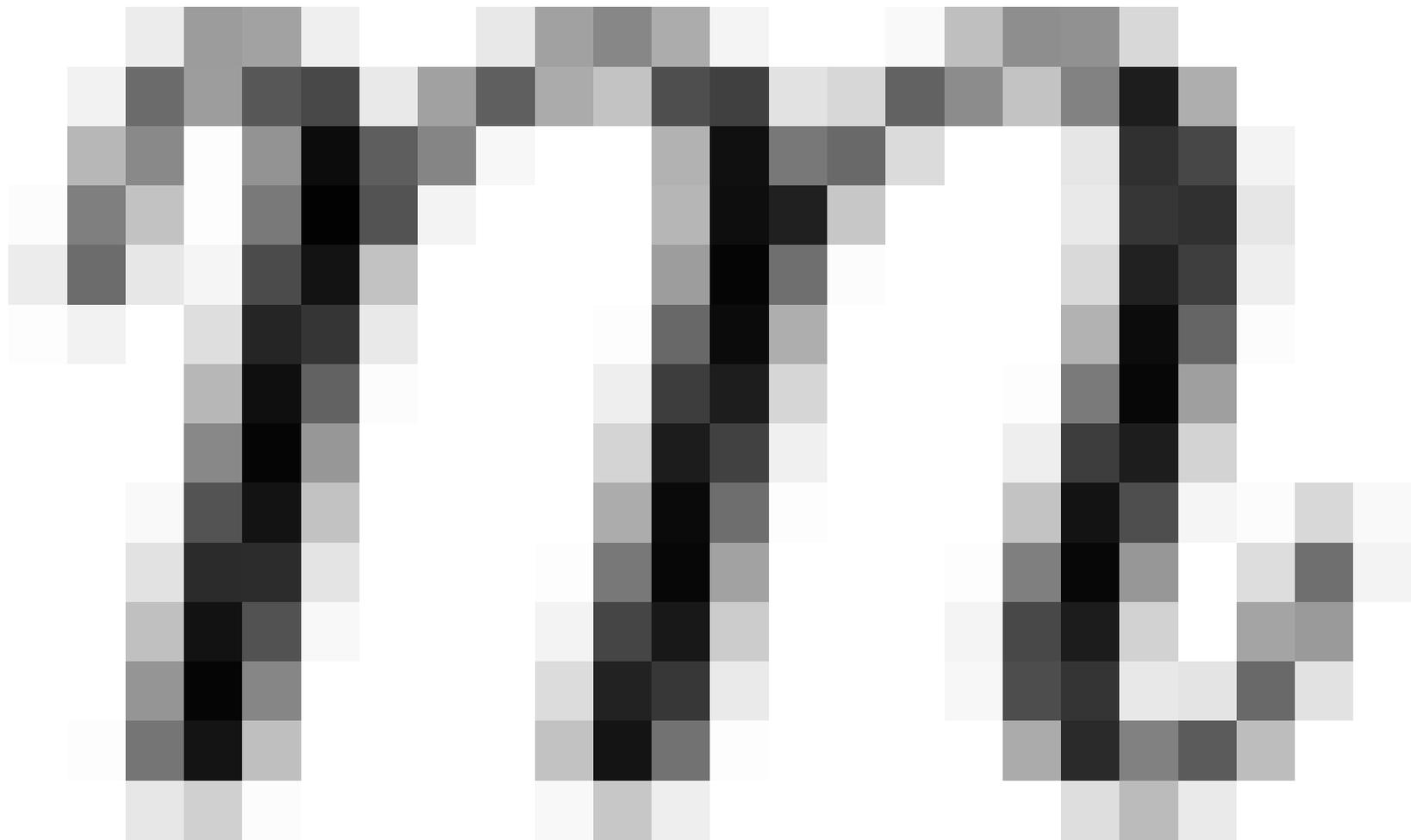


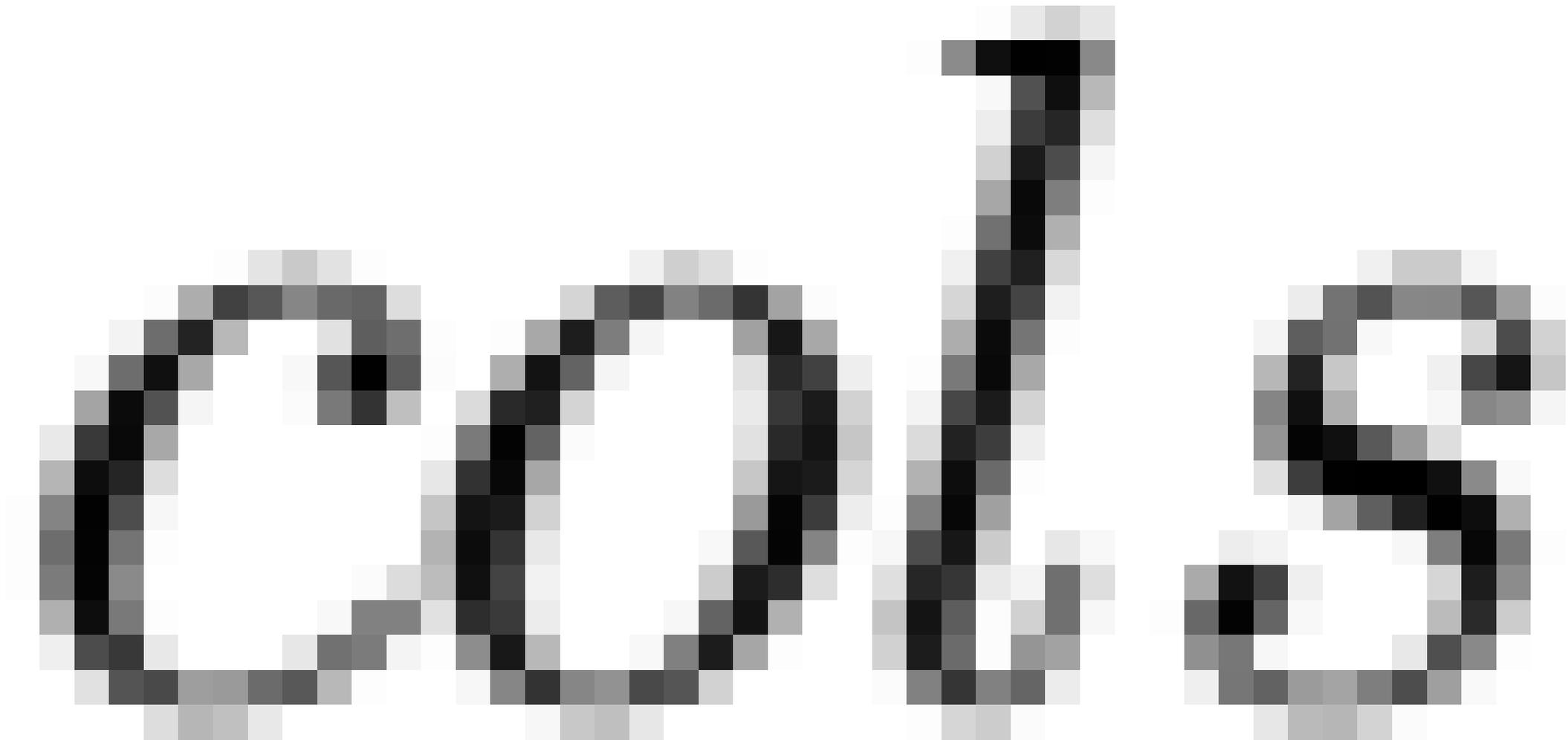




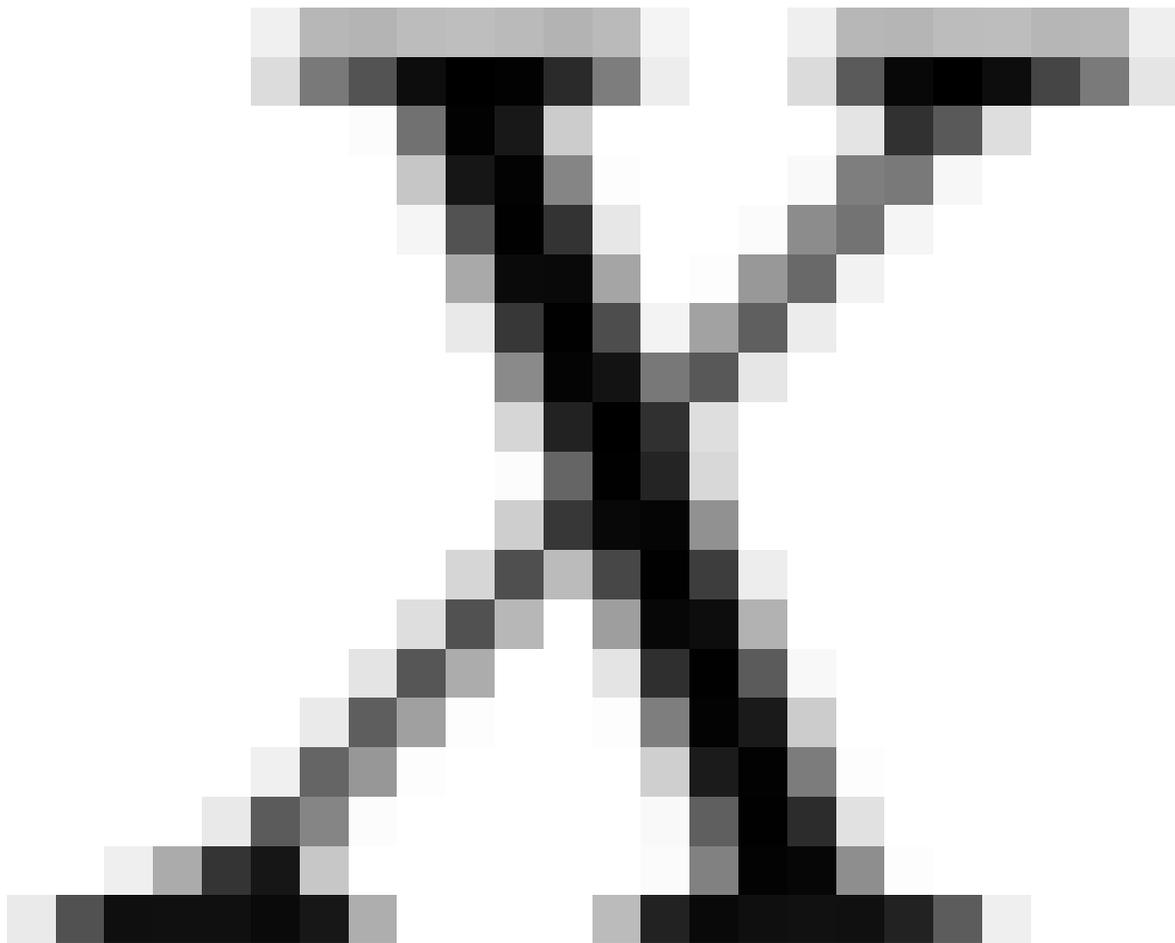


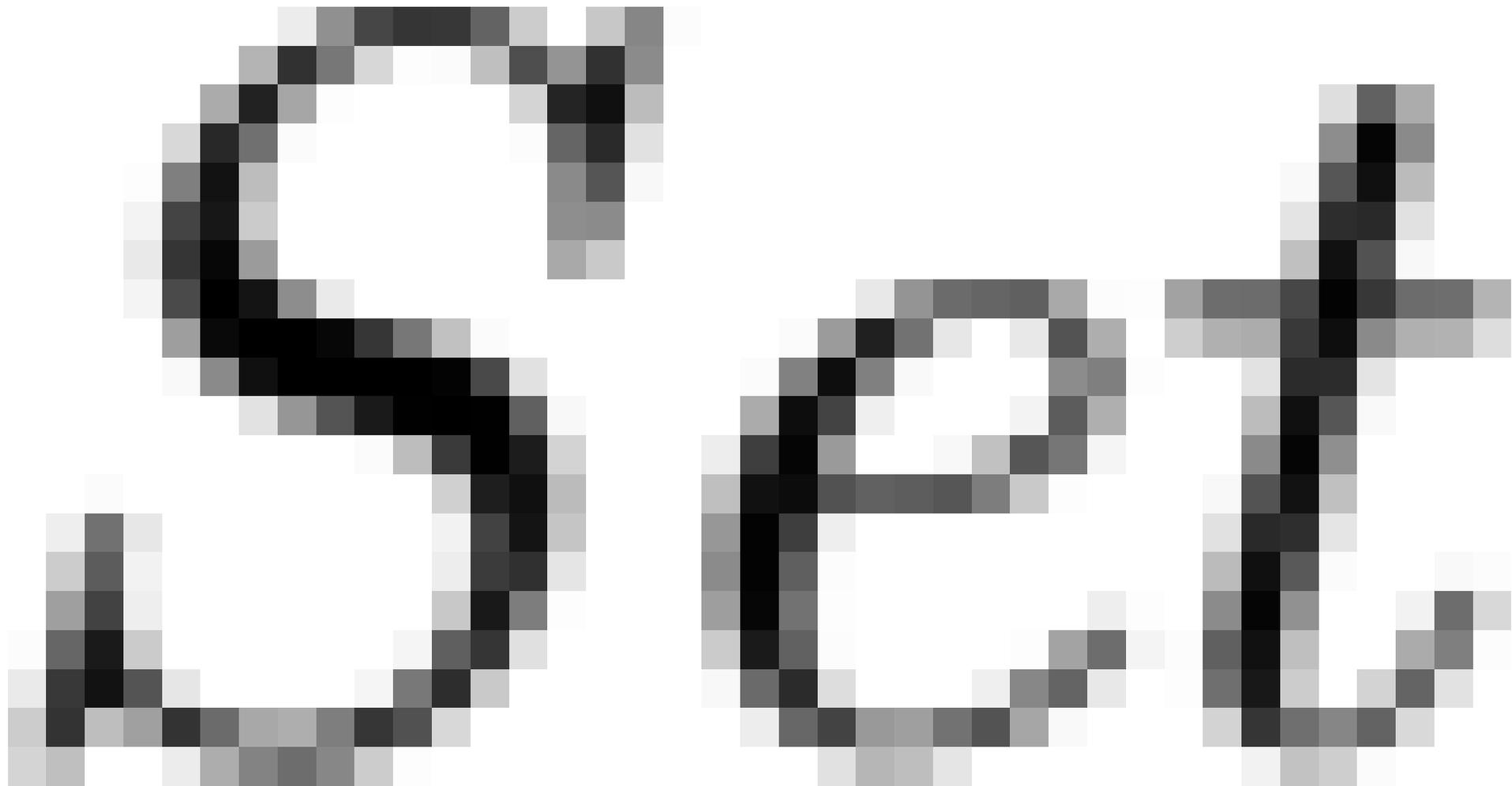




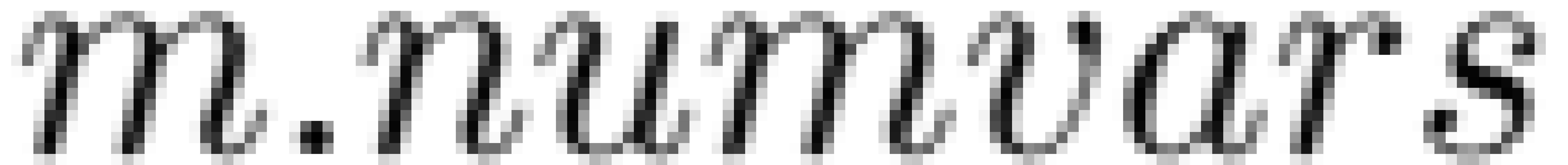


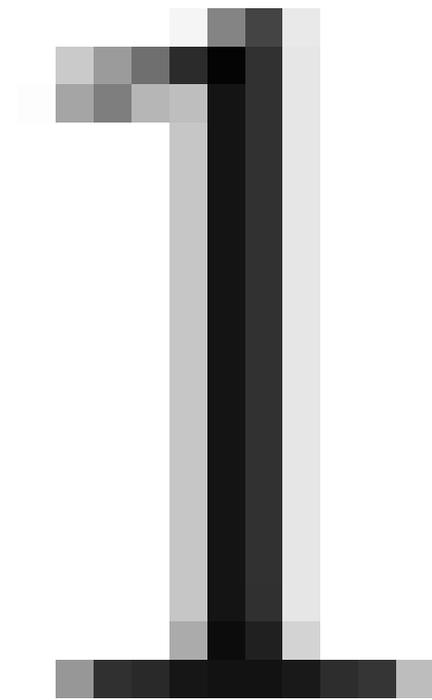
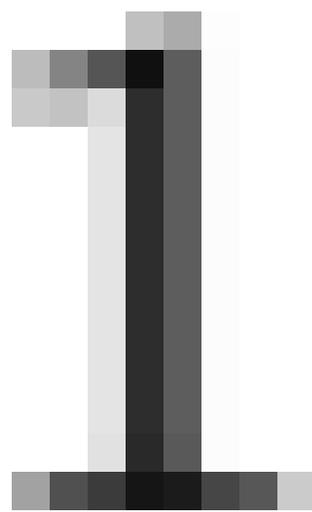
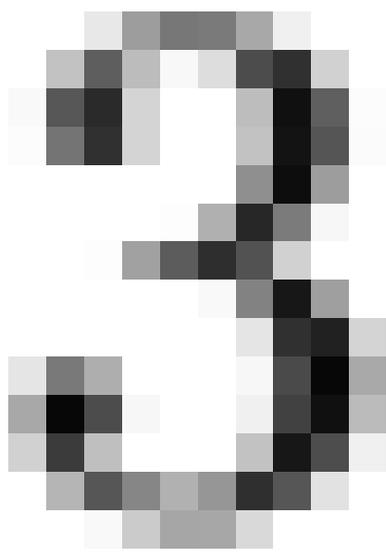
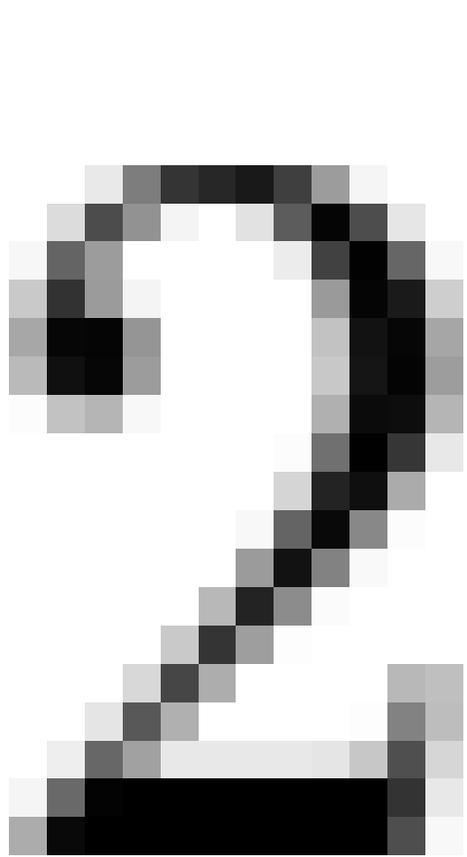




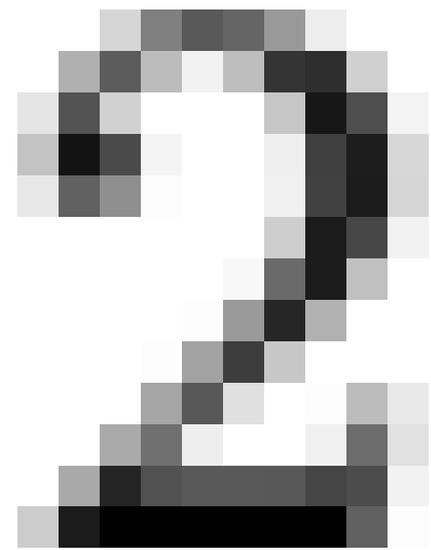
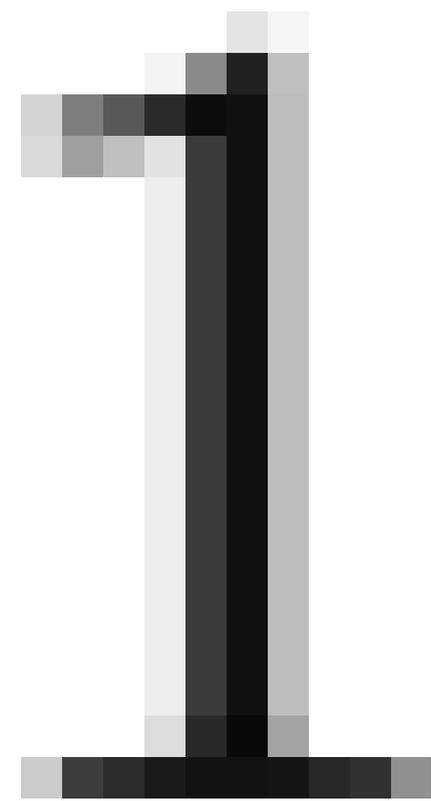
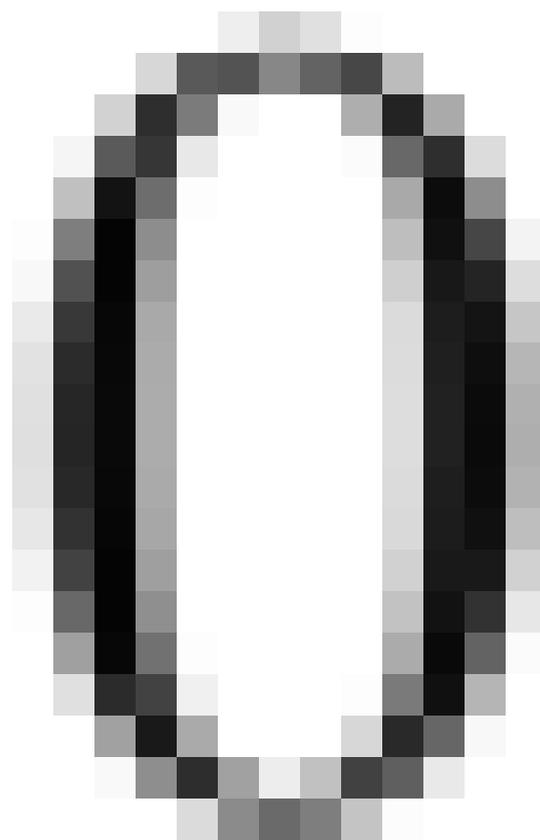
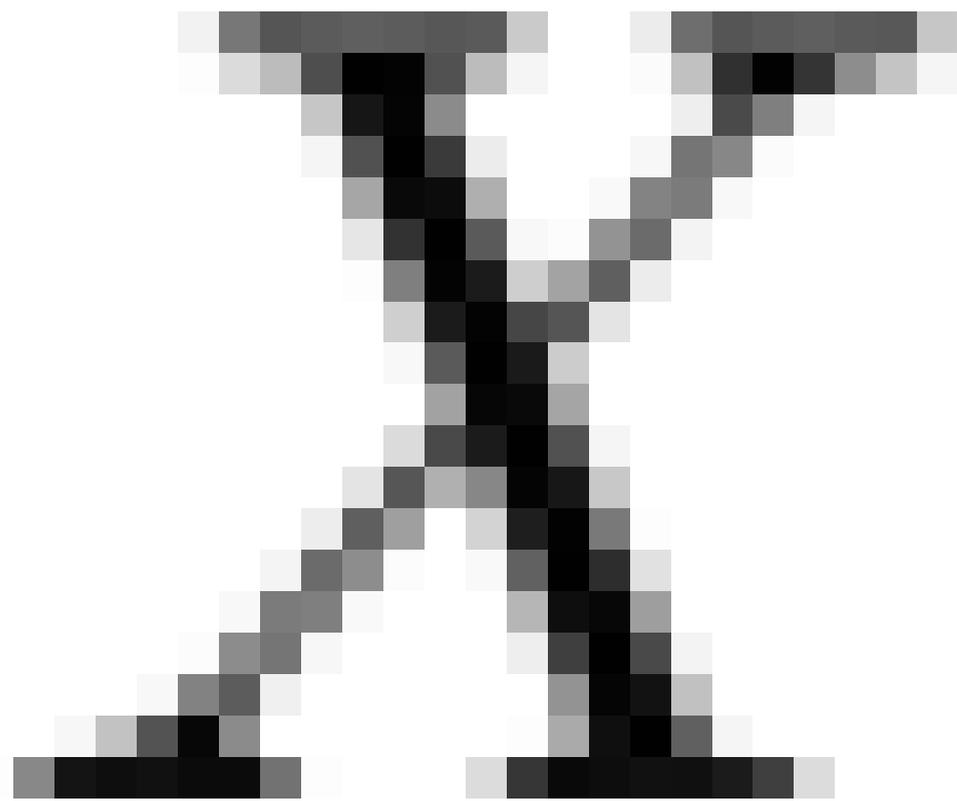
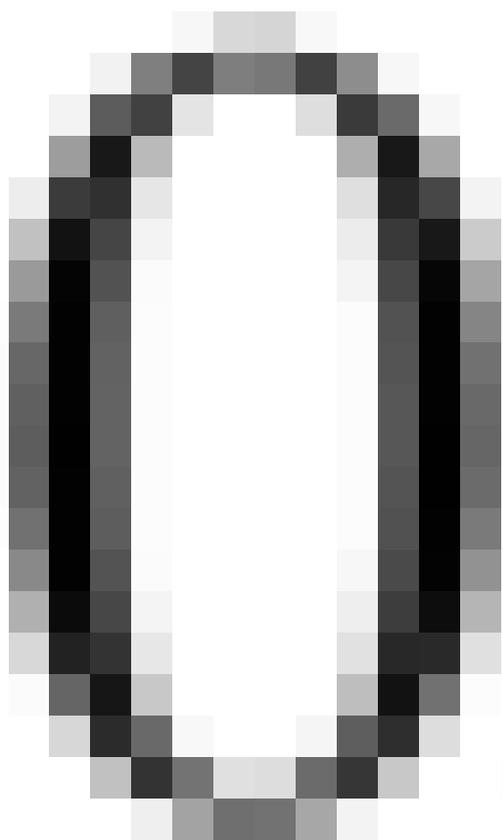
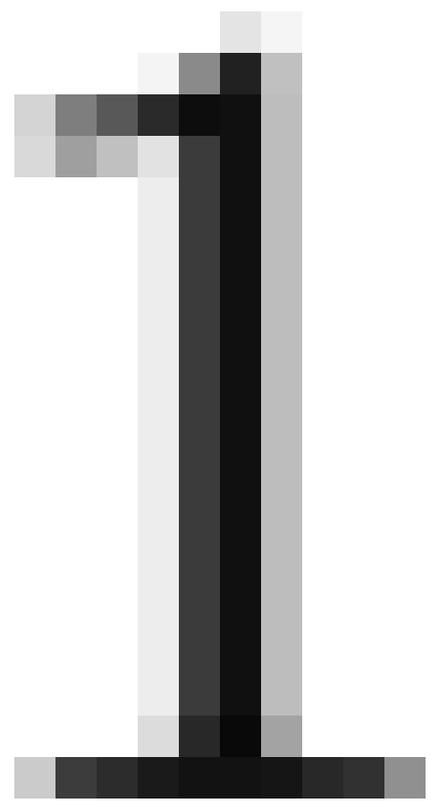


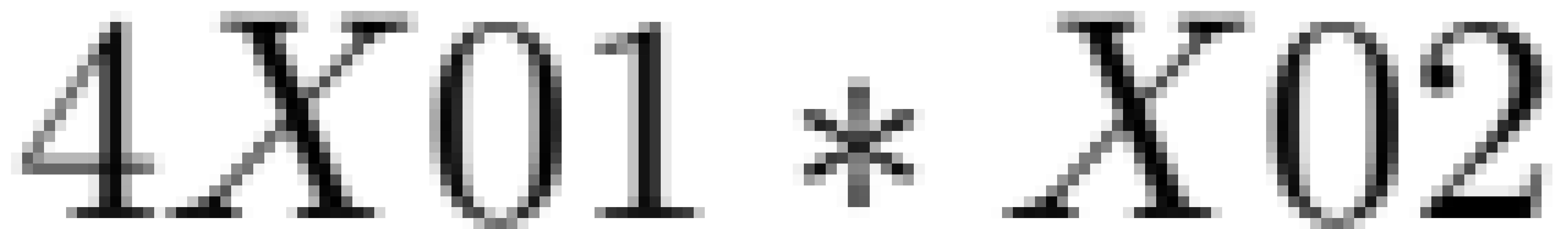


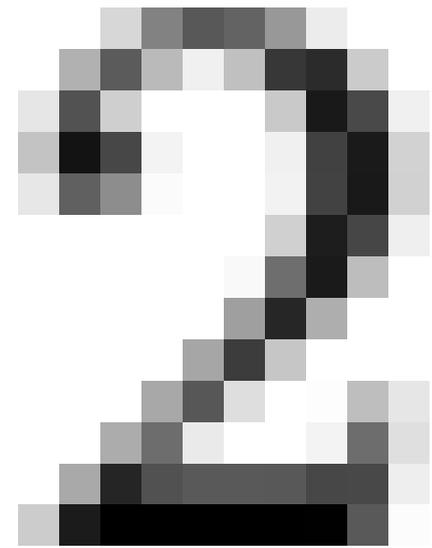
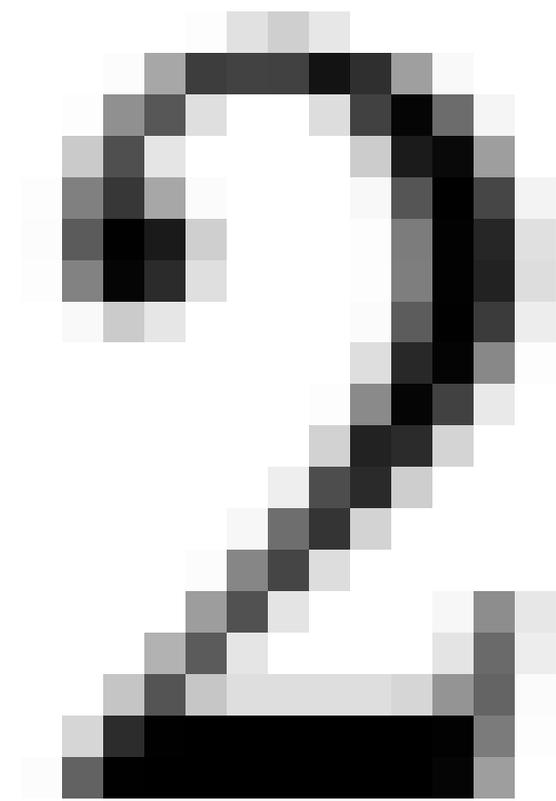
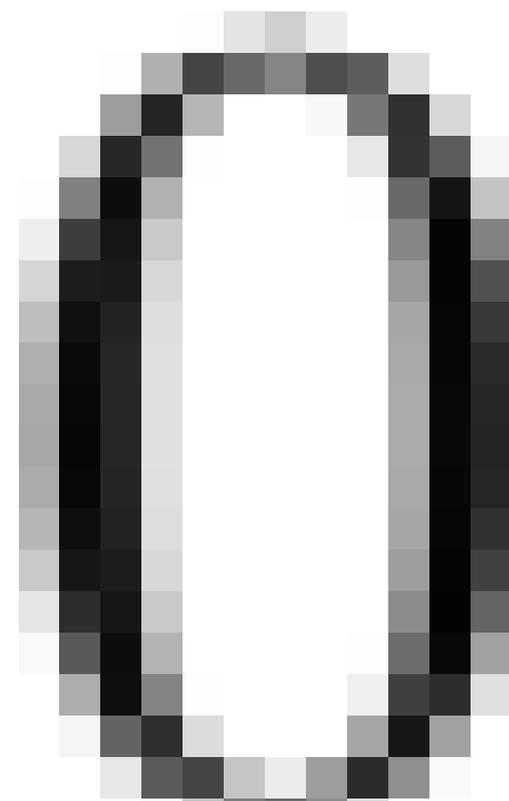
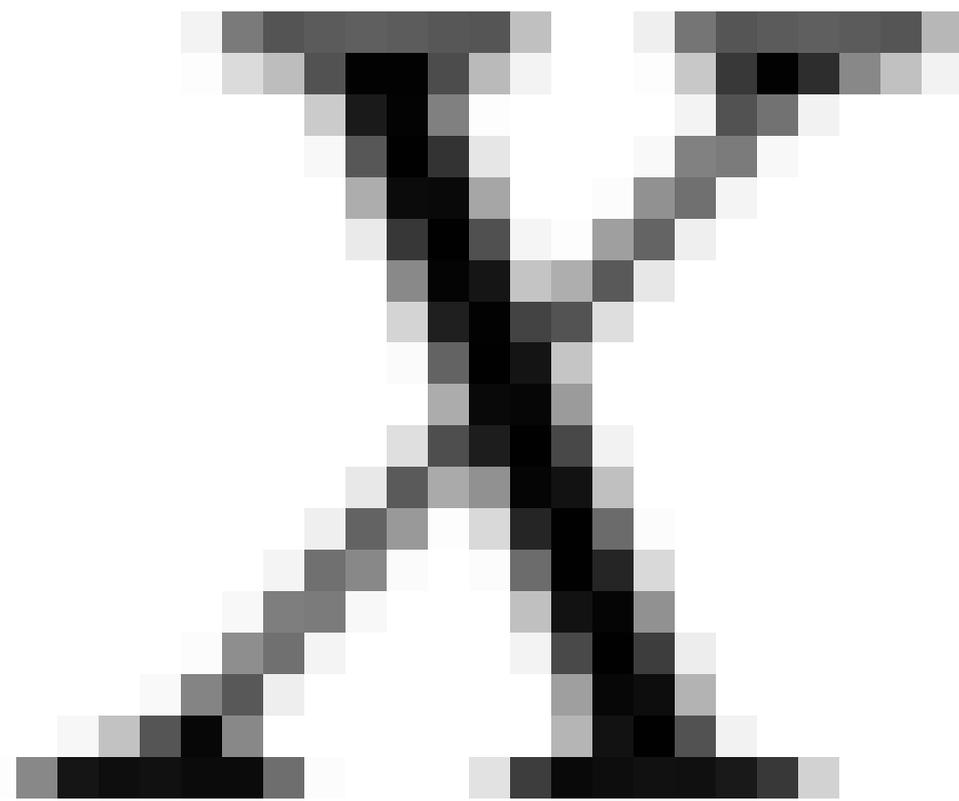
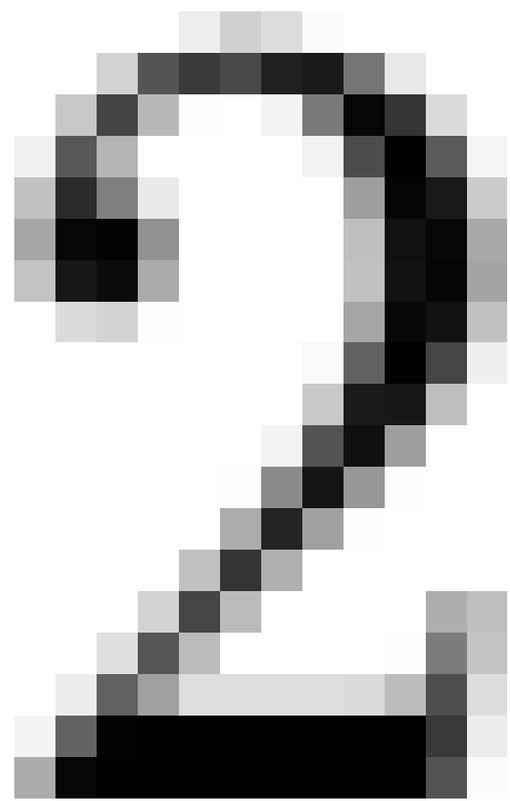




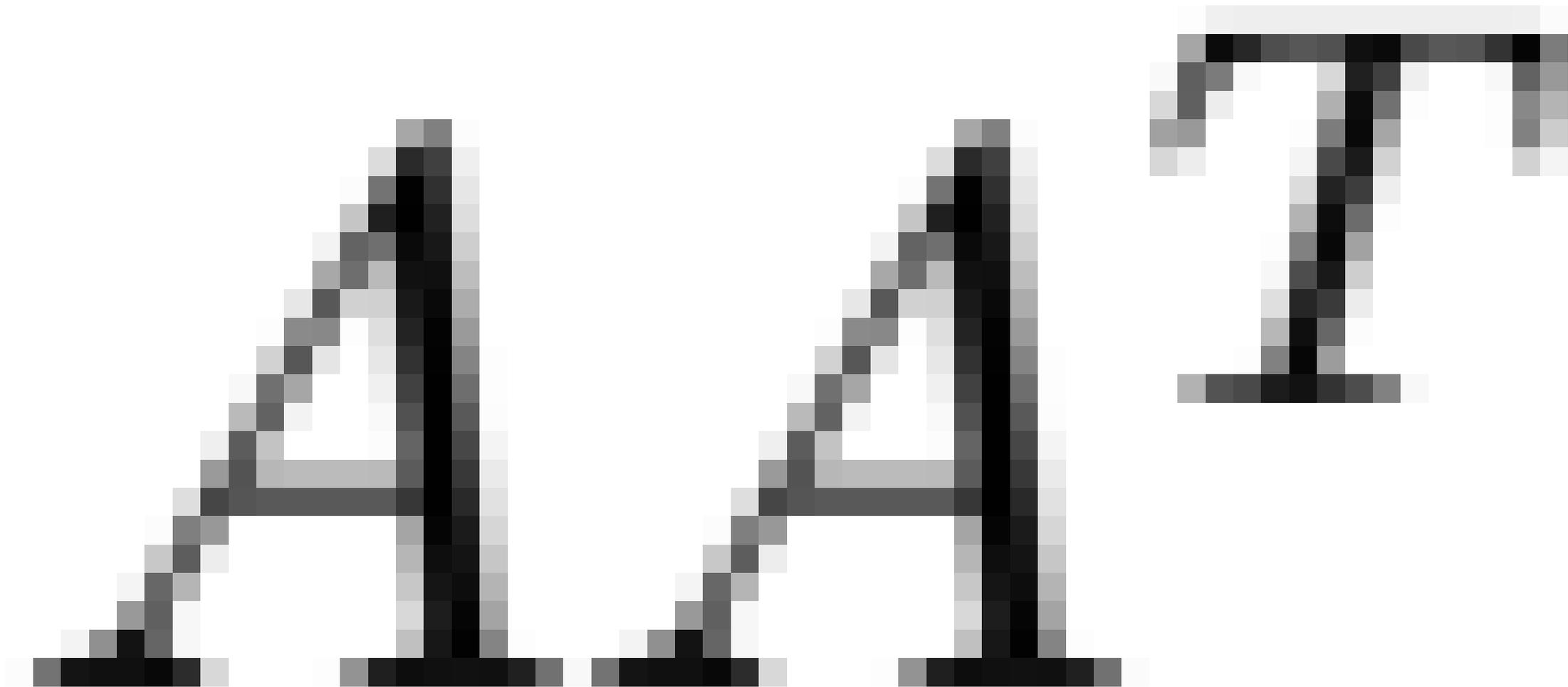
$$\left(10x^0 + 2x^1 + 2x^0 + 2x^1 + 2x^2 \right) / 2$$

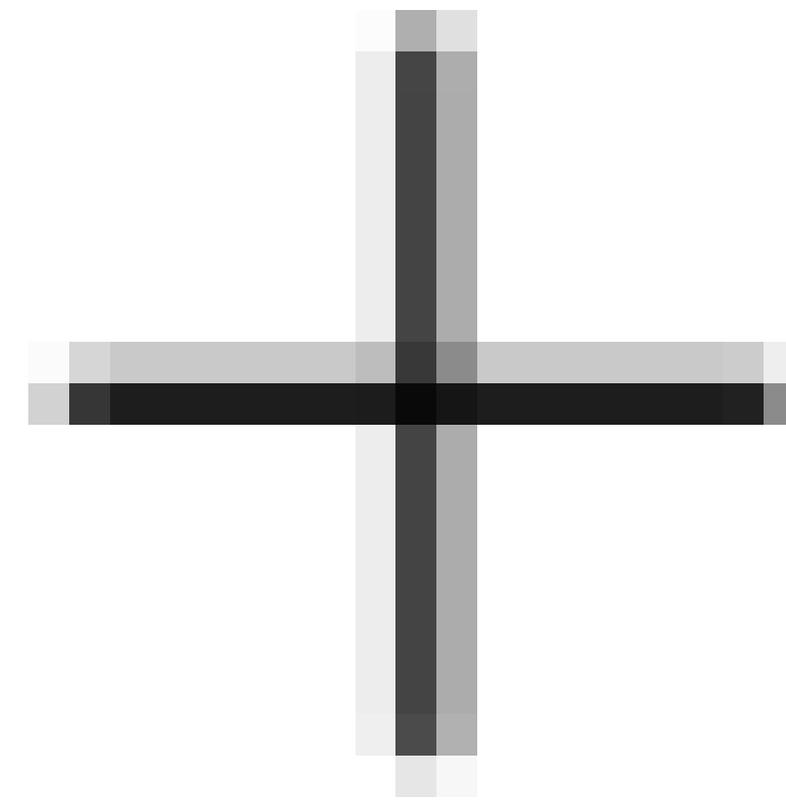
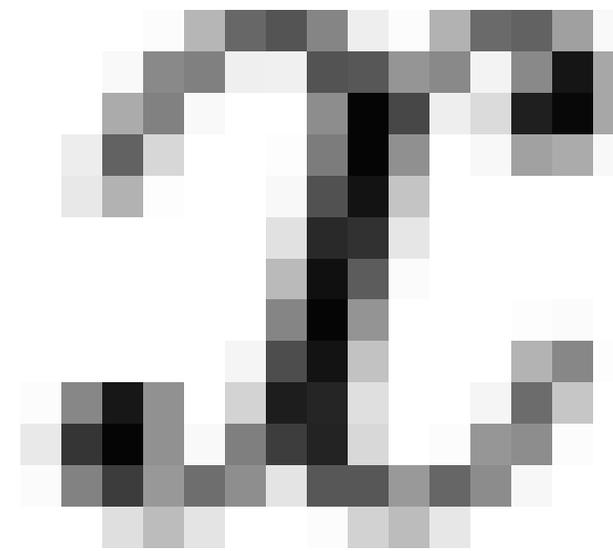
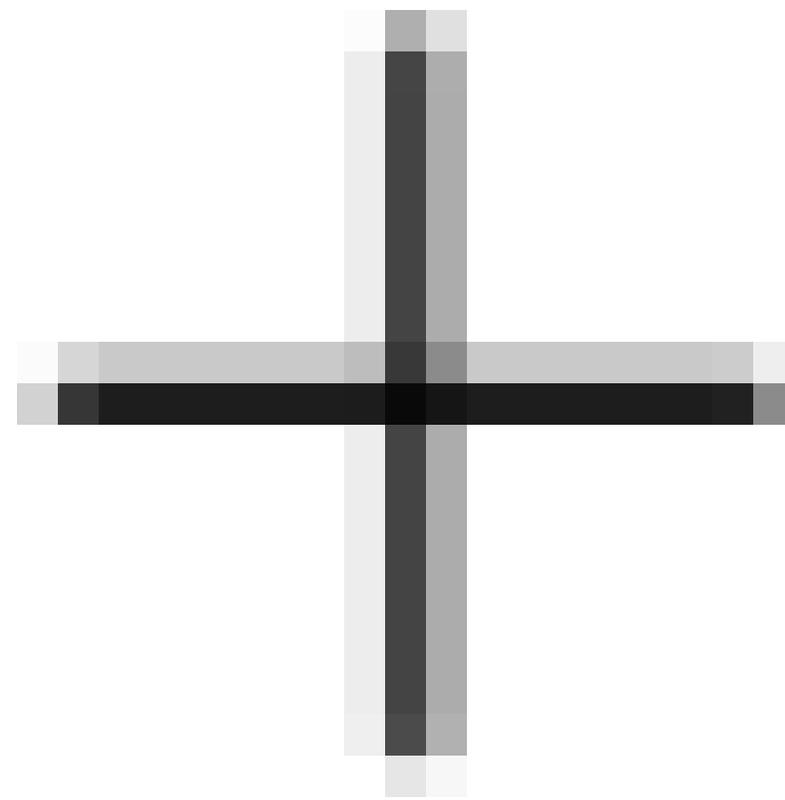
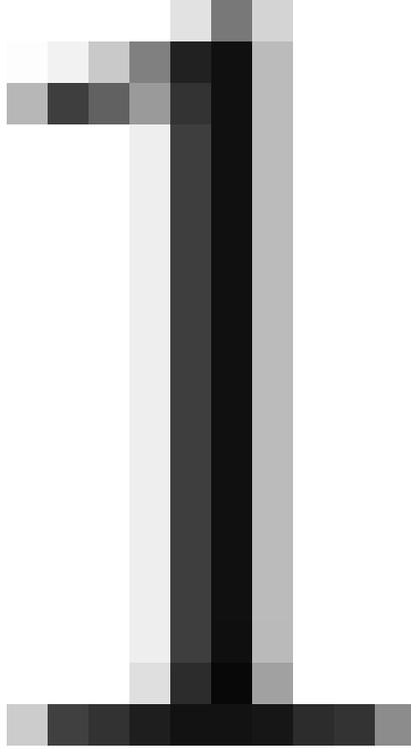


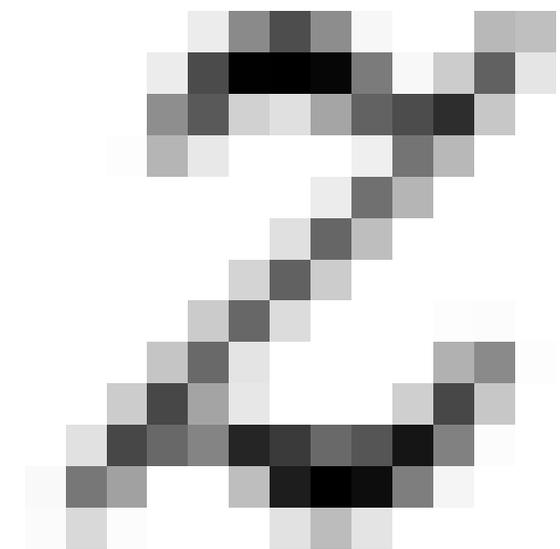
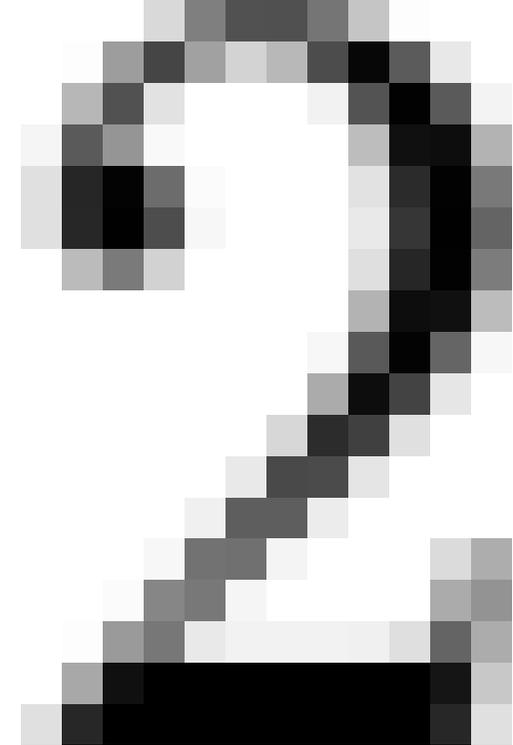
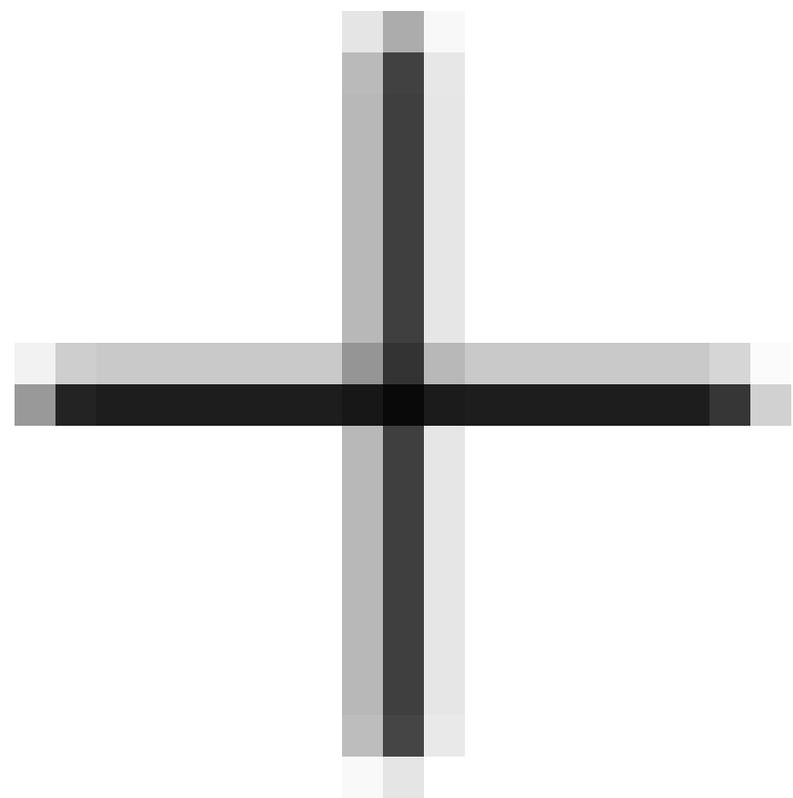
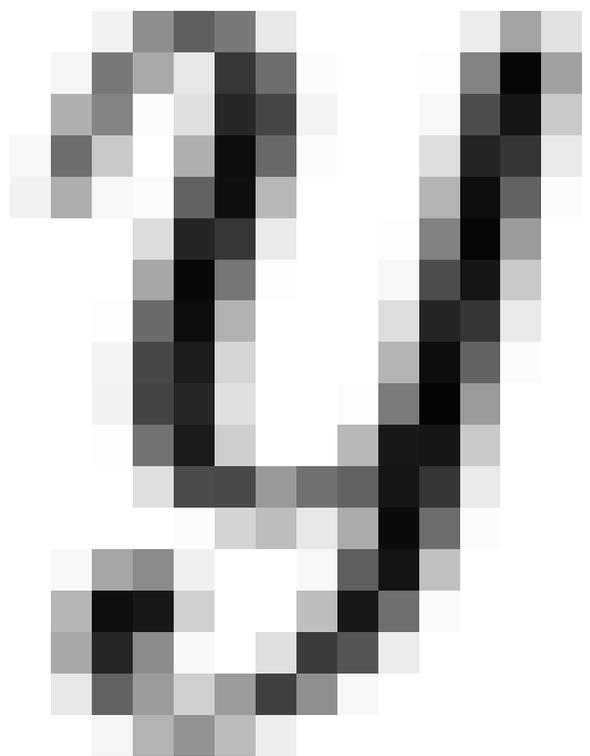




$$\begin{array}{ll} \text{minimize} & y - 1.3x(1 - z) + (1 - z) \\ \text{subject to} & 2y - 3x + 1.7w = 1.7 \\ & -y + x + xz(1 - v) \geq 0 \\ & -y \leq 0, \\ & v, w, x, y, z \in \{0, 1\}. \end{array}$$

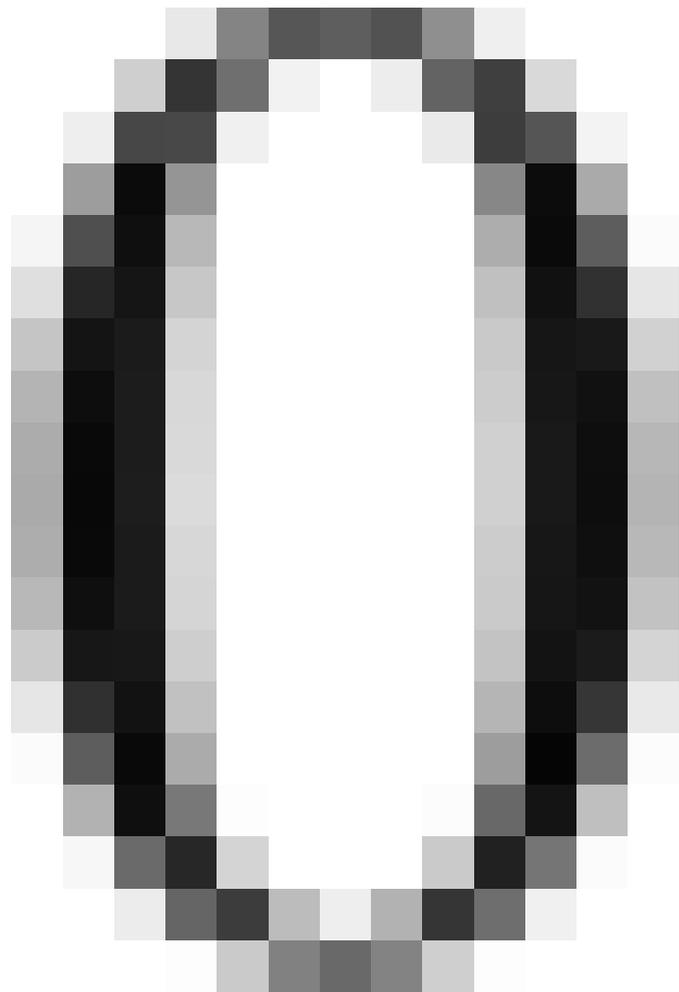
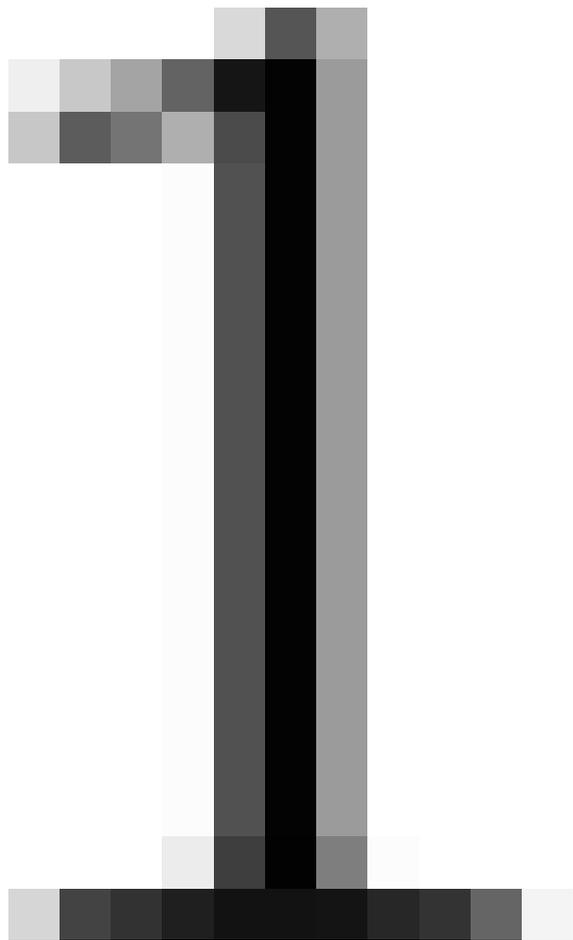


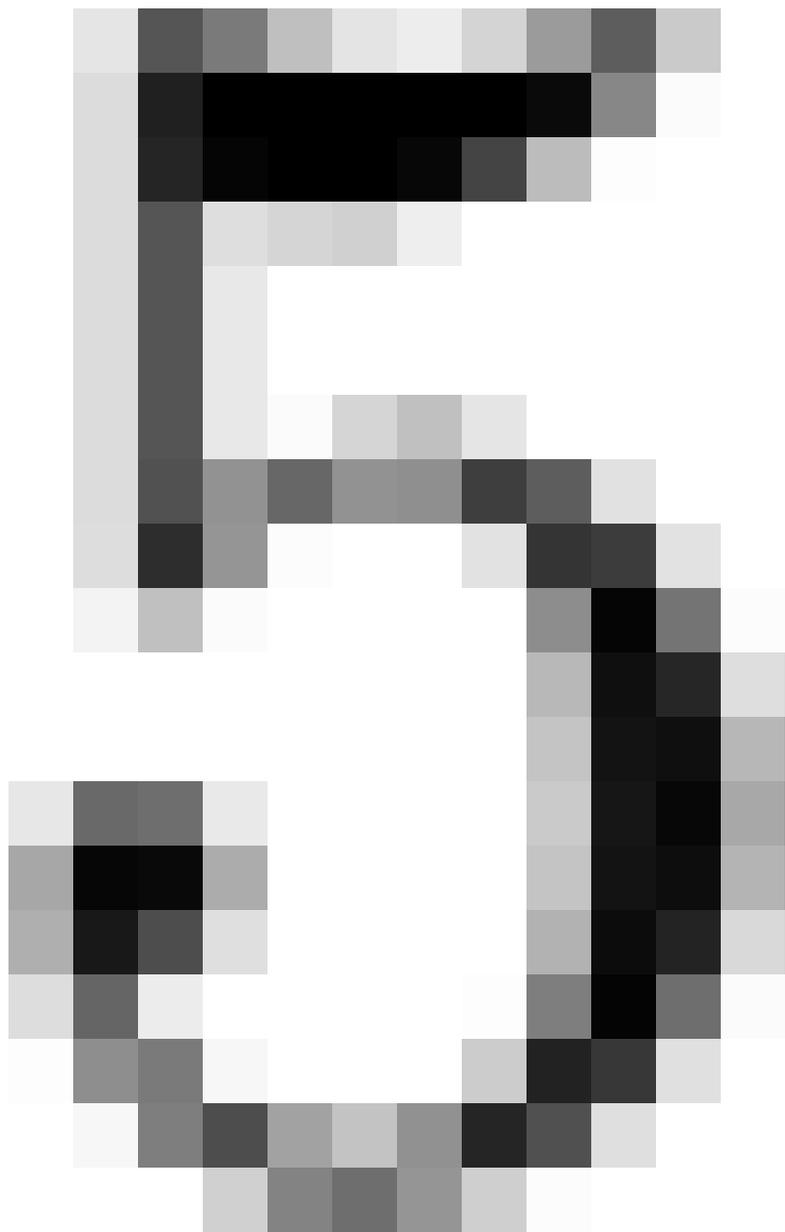


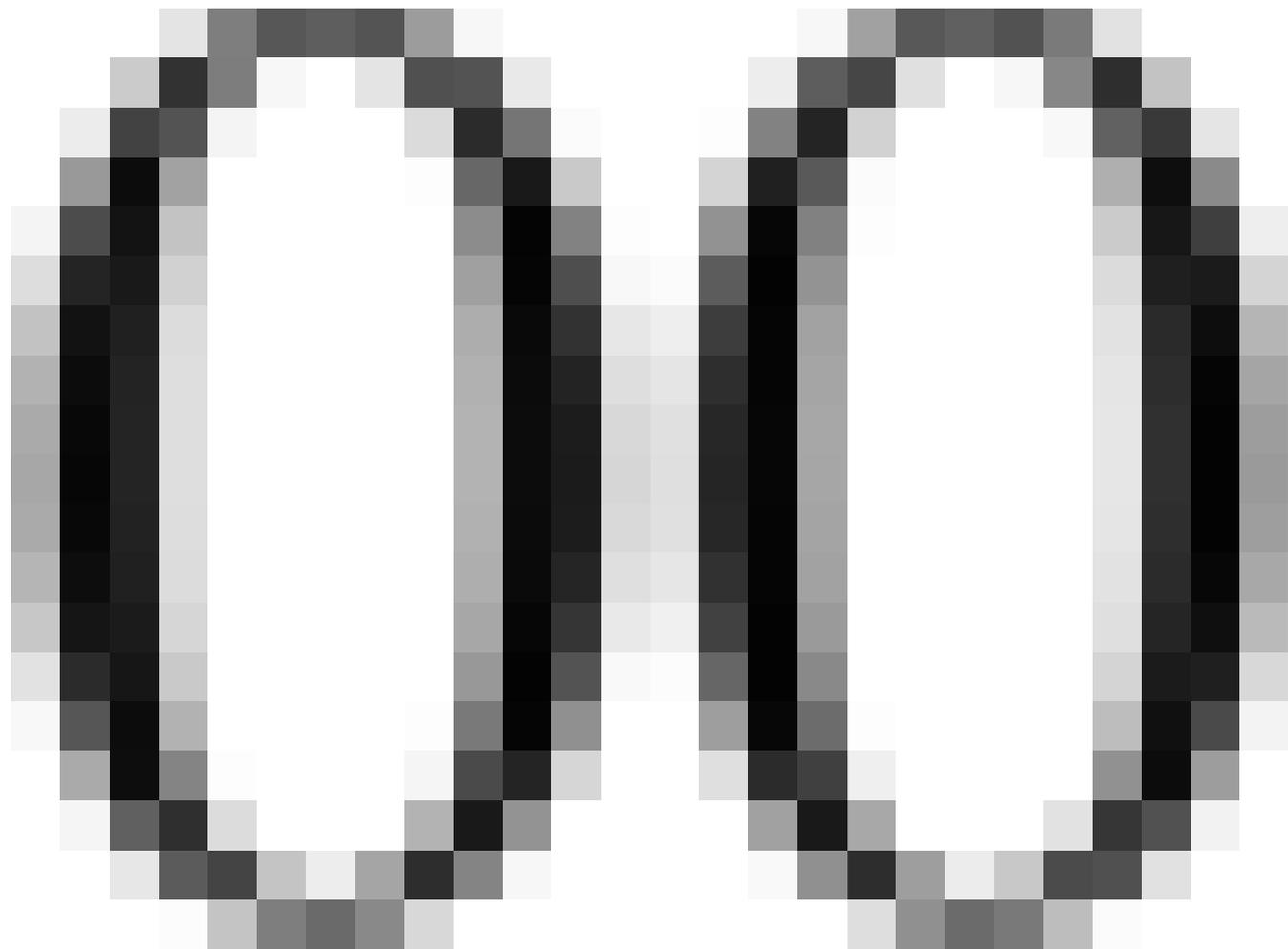
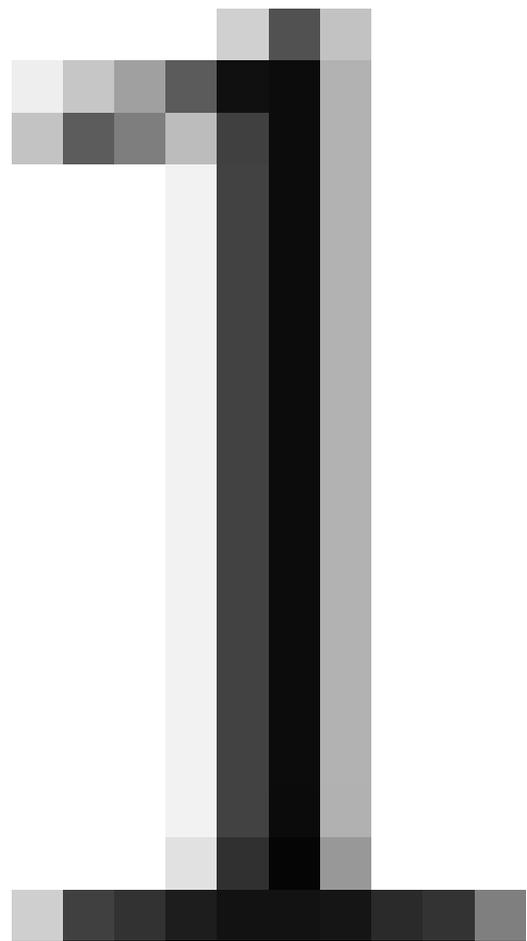


$$1 \cdot (1 + x + 2x^2) + 2 \cdot (2x + 2x^2) = 1 + x + 4x^2$$

100



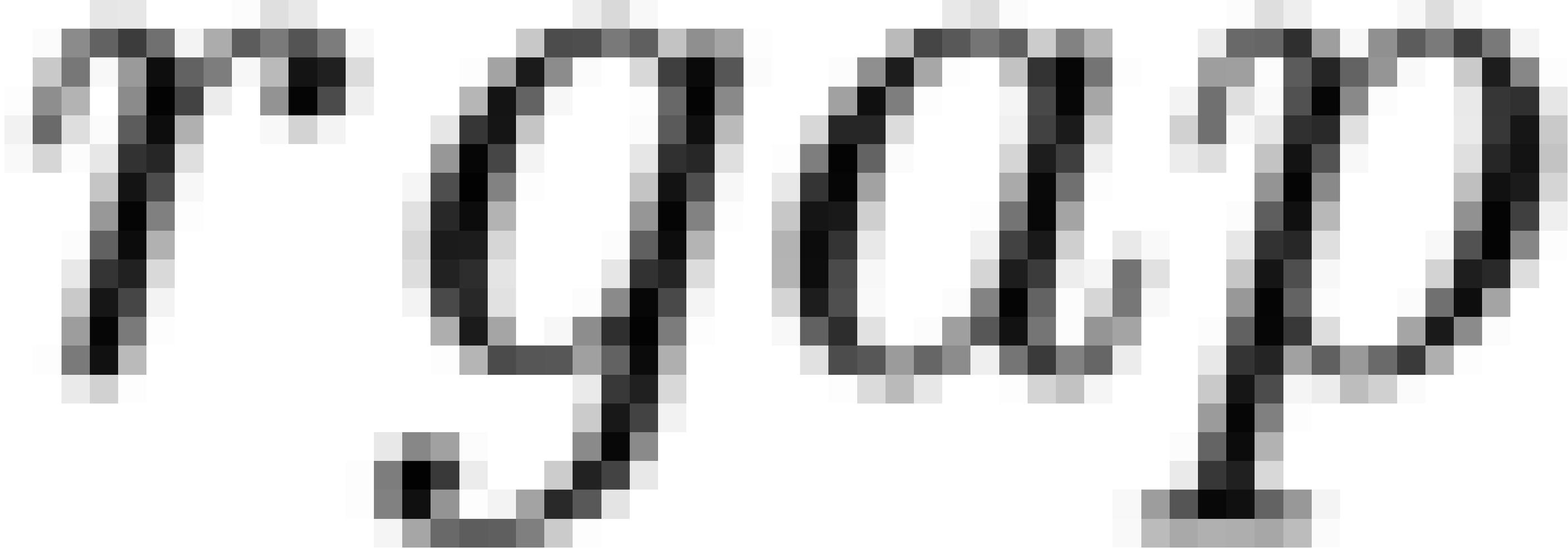


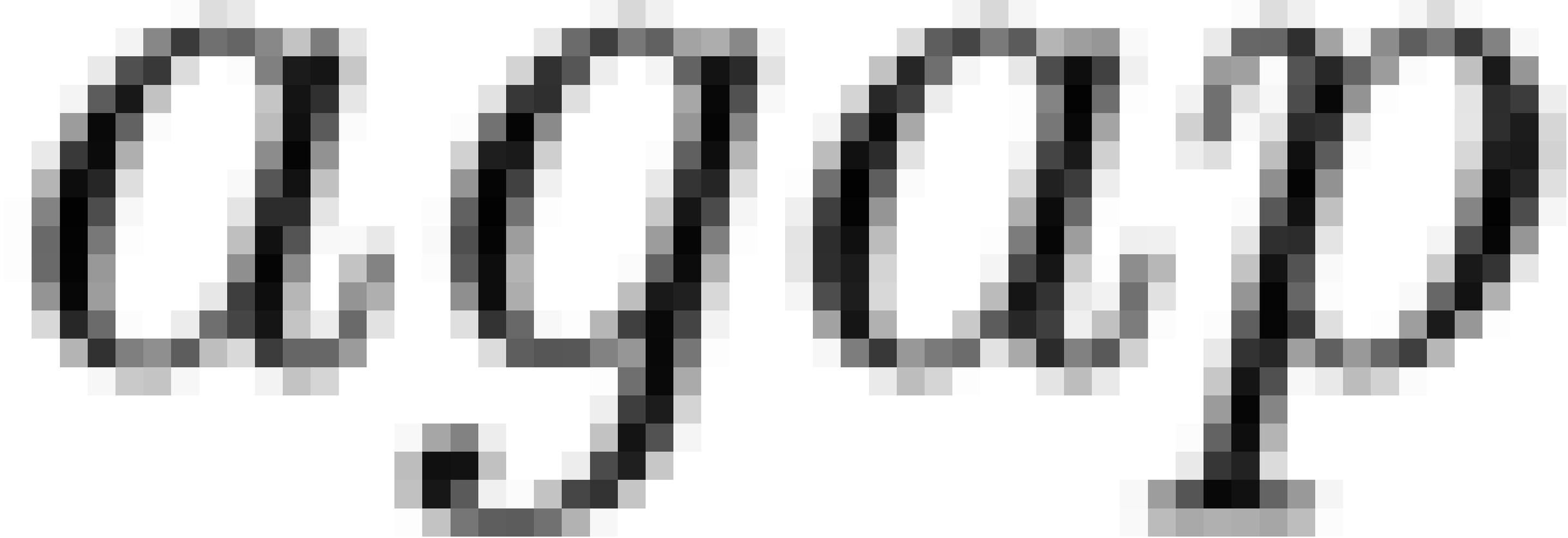


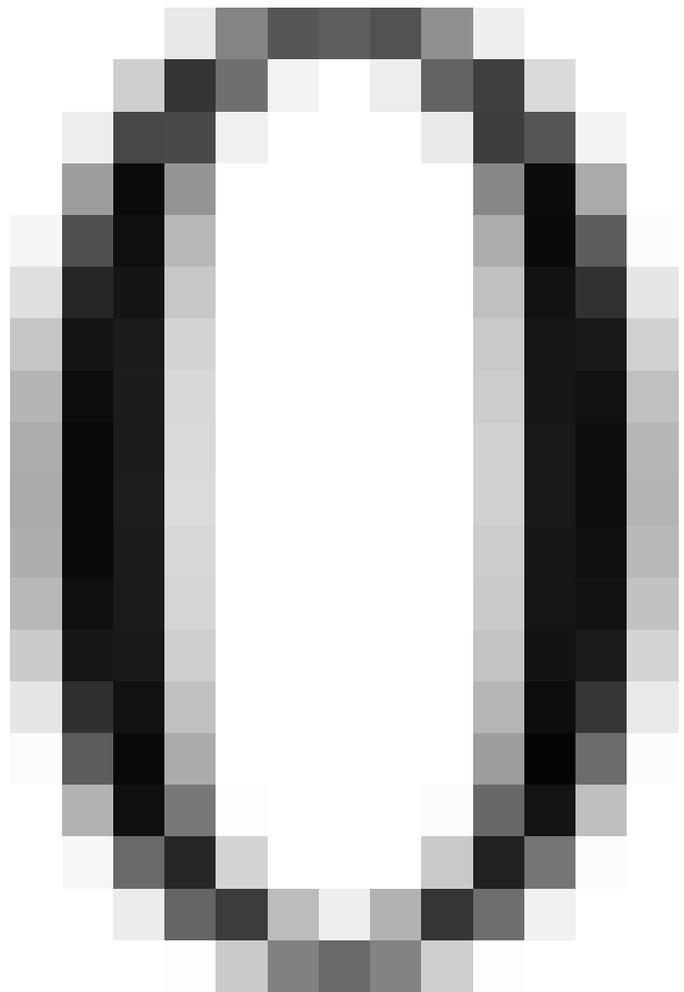
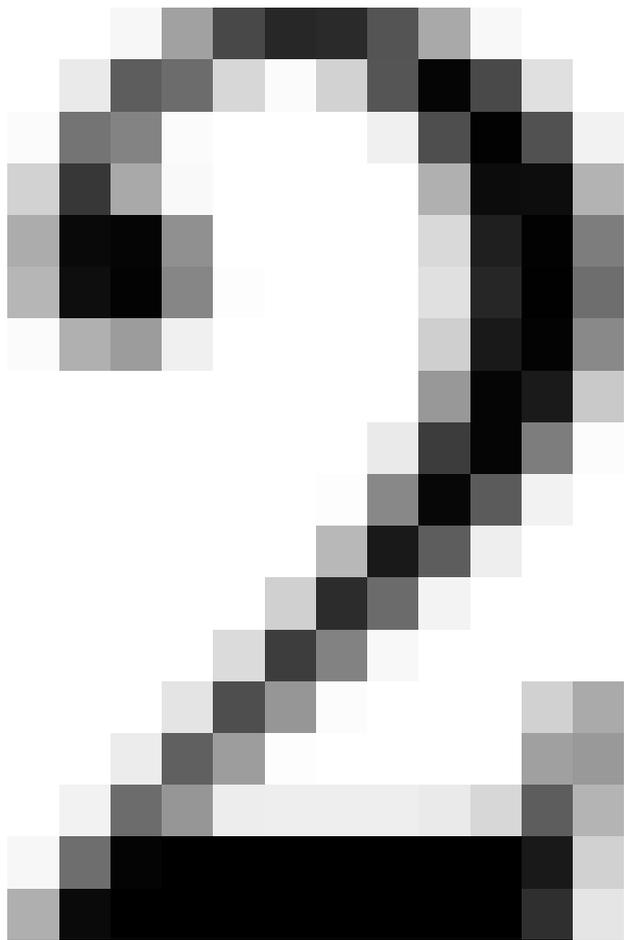
base value = max { bestsol, bestbound | gap, bestbound - gap }

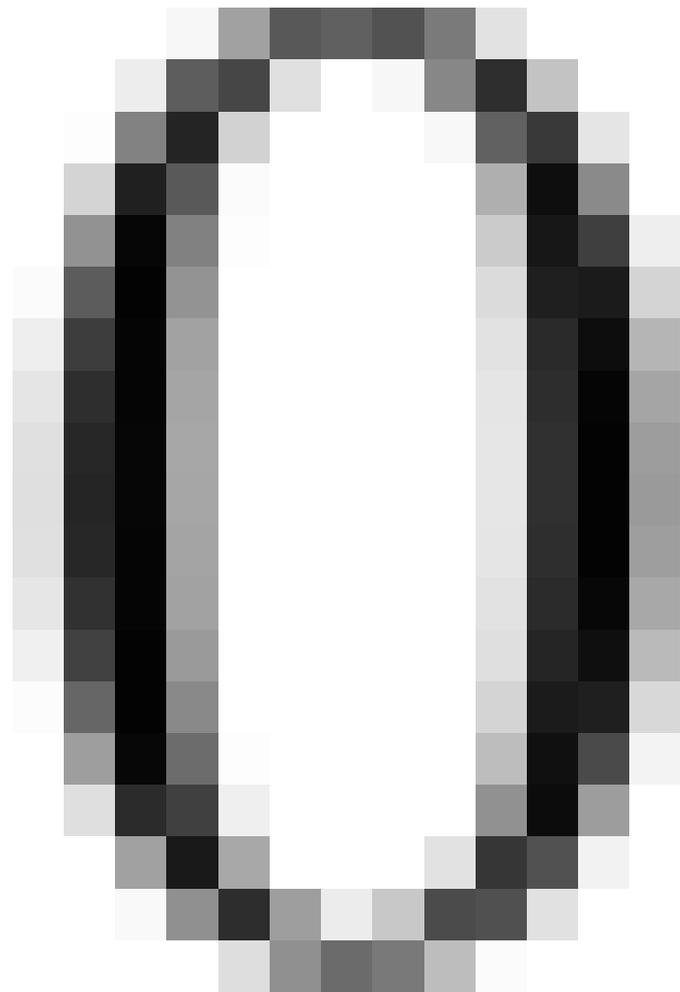
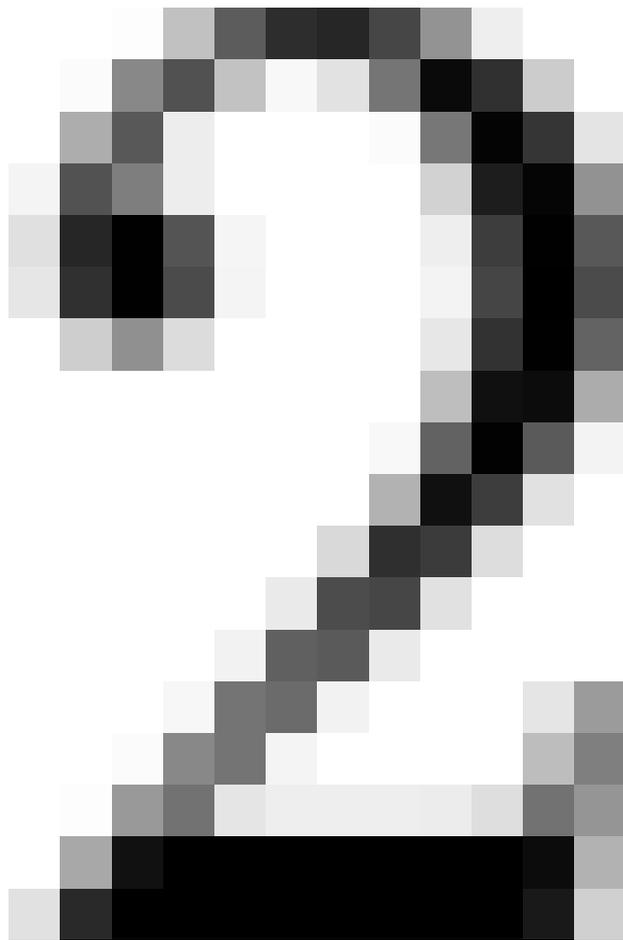
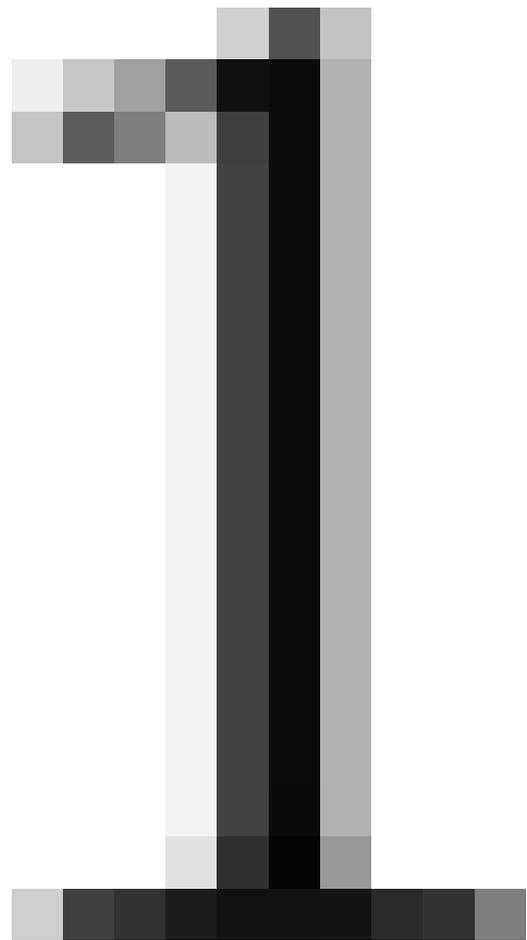
1999

1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100











10 1 2 3

$$x - 6y = 1$$

$$0.333x - 2y = .333$$

www.100500.com

$$x - 6 \cdot (0.1665x - 0.1665) = 1$$

$$\Leftrightarrow 0.001x = 0.001$$

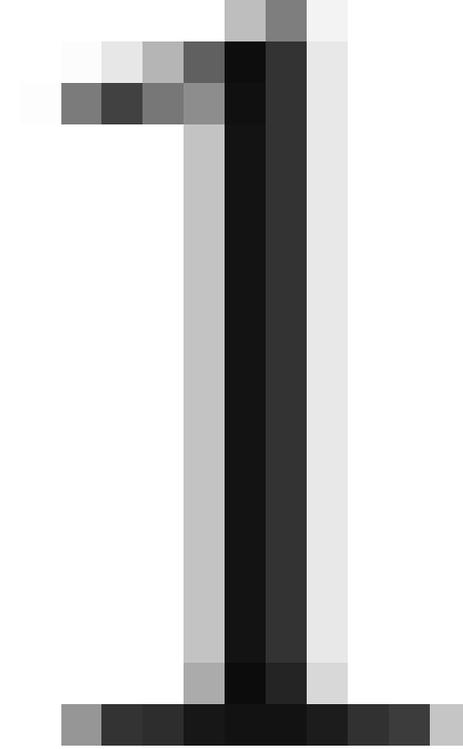
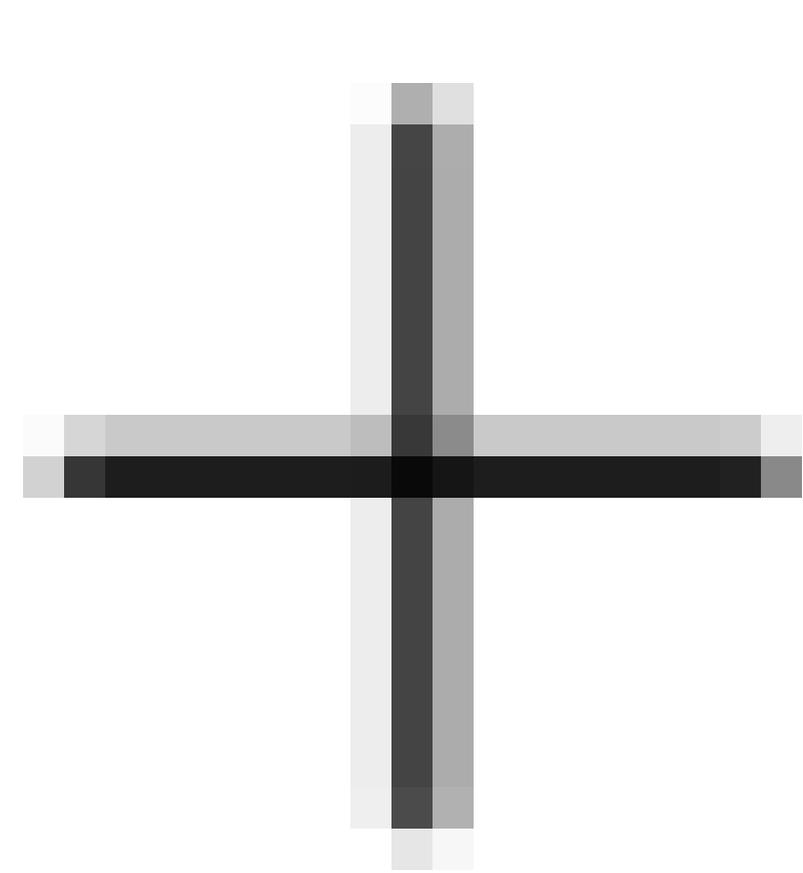
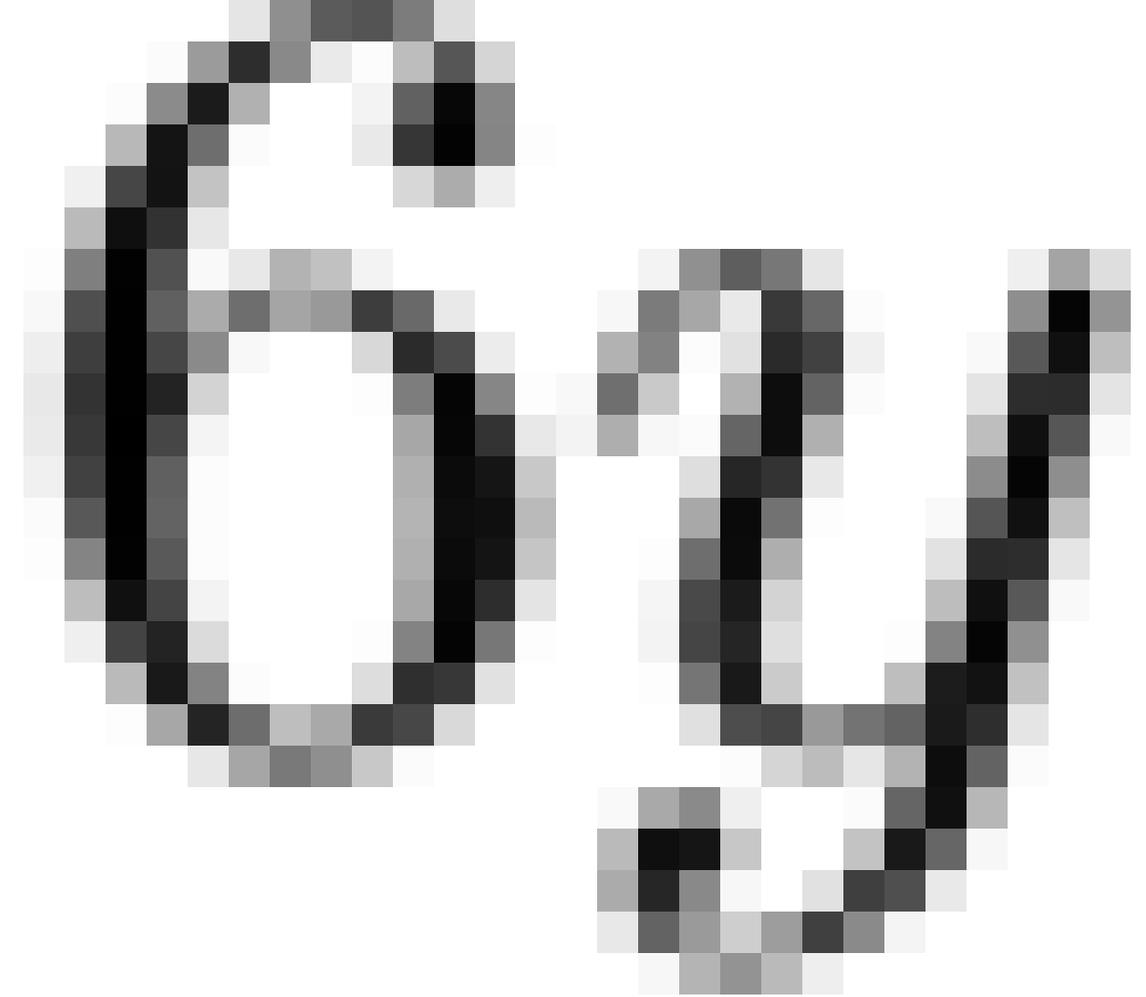
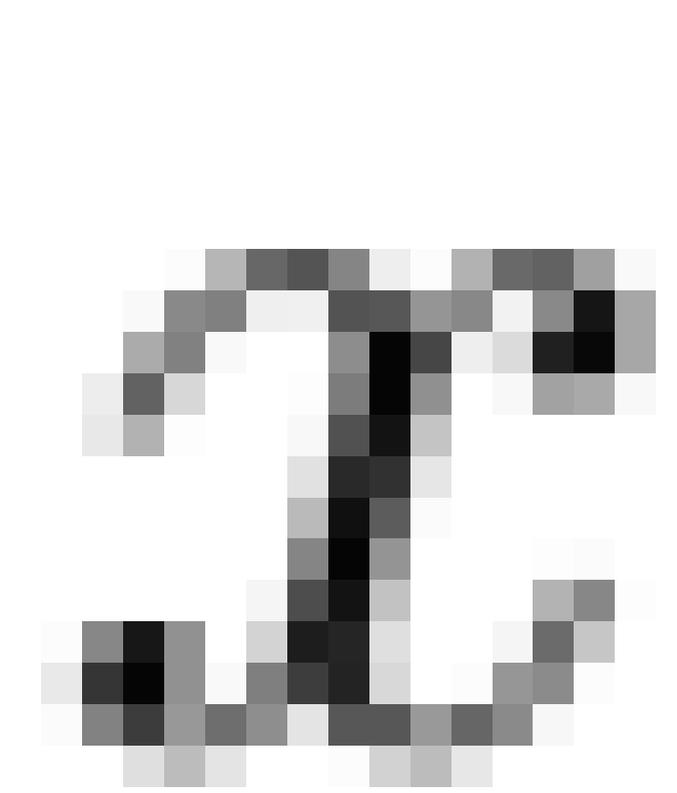


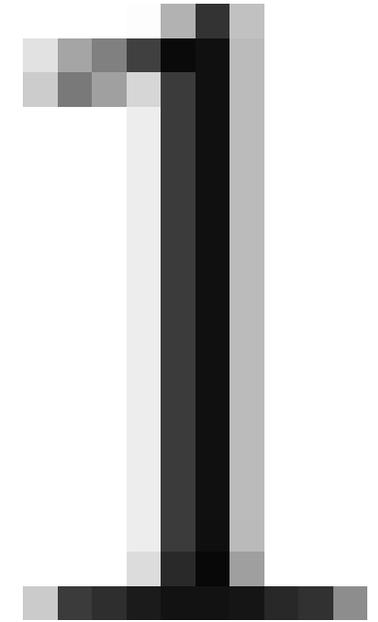
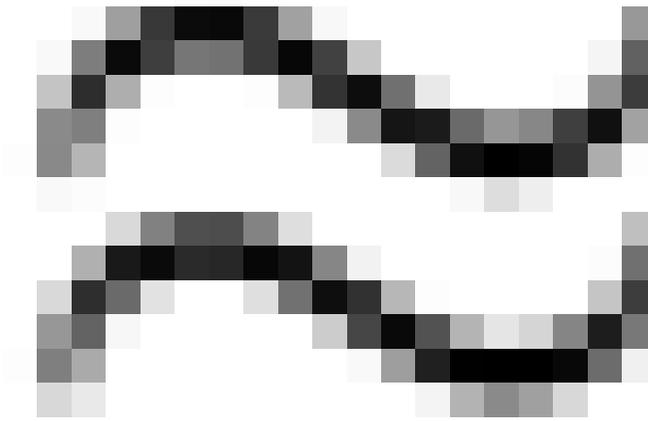
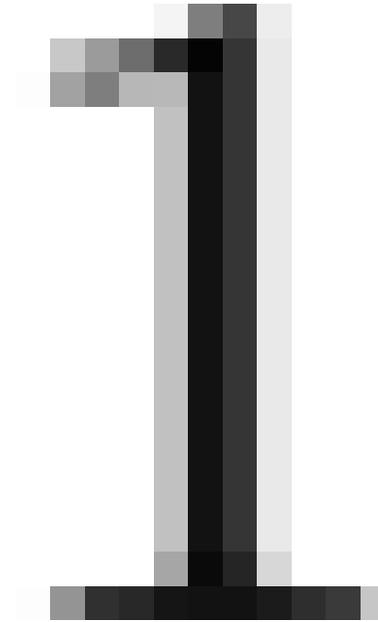
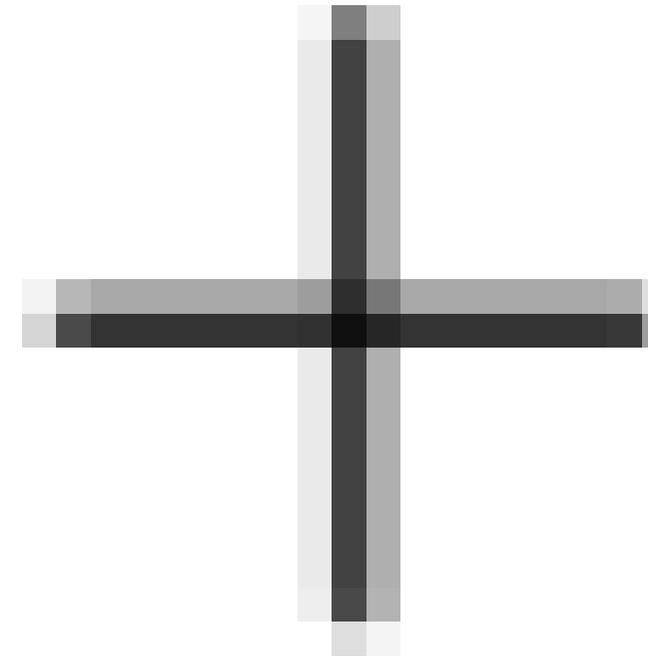
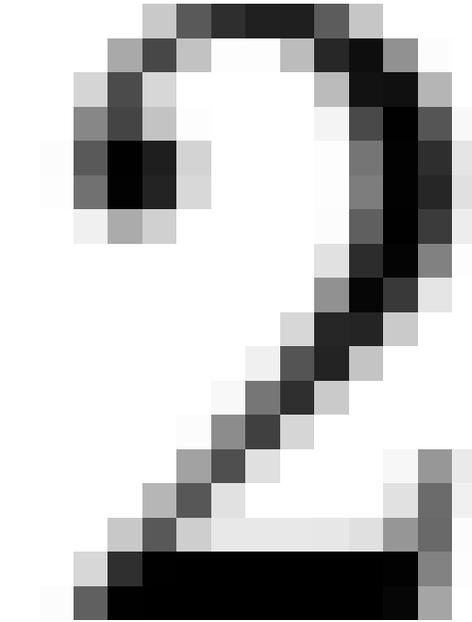
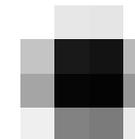
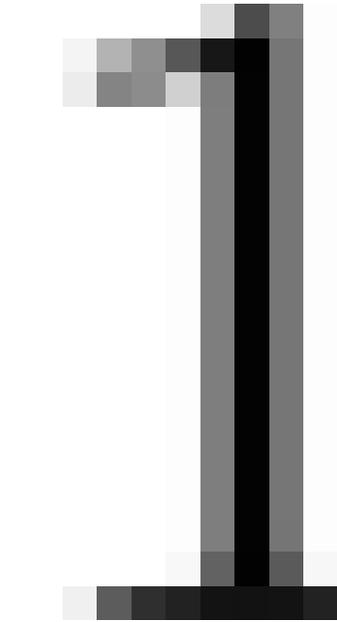
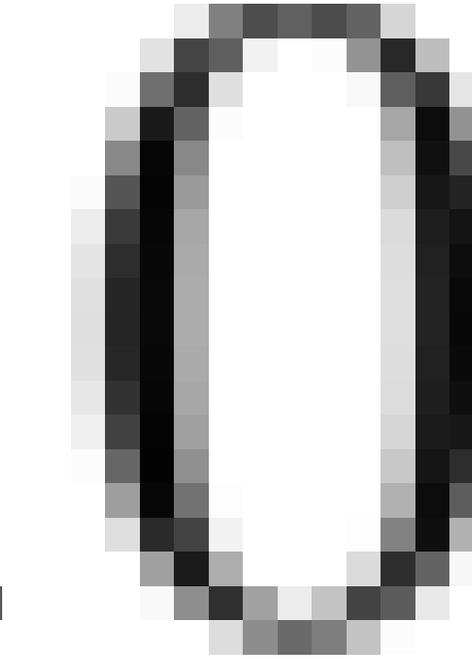
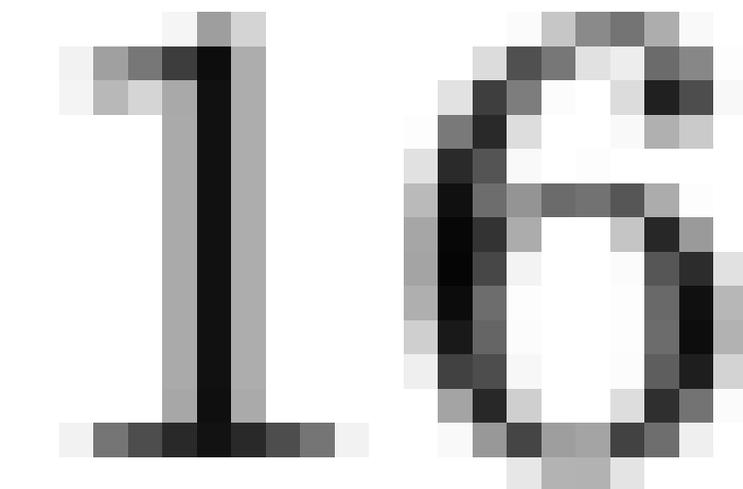
$$x - 6y = 1$$

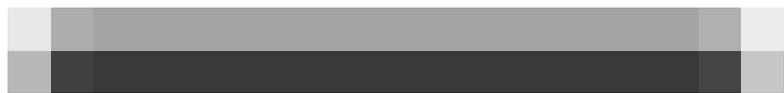
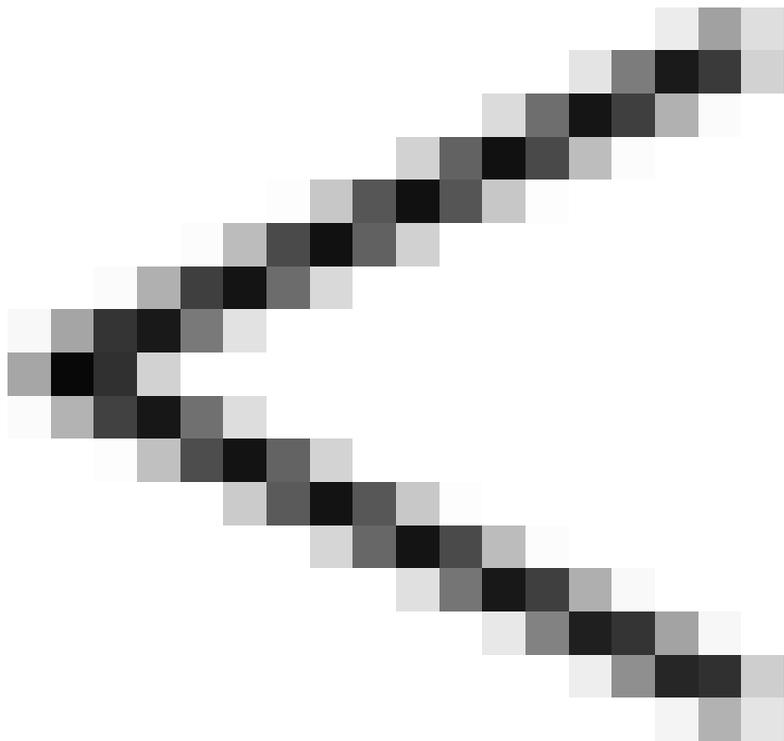
$$0.3333333333333333x - 2y = 0.3333333333333333$$

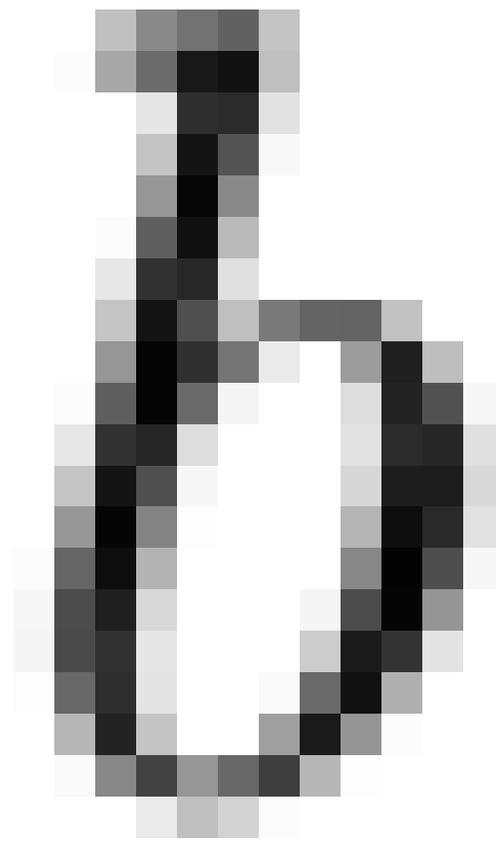
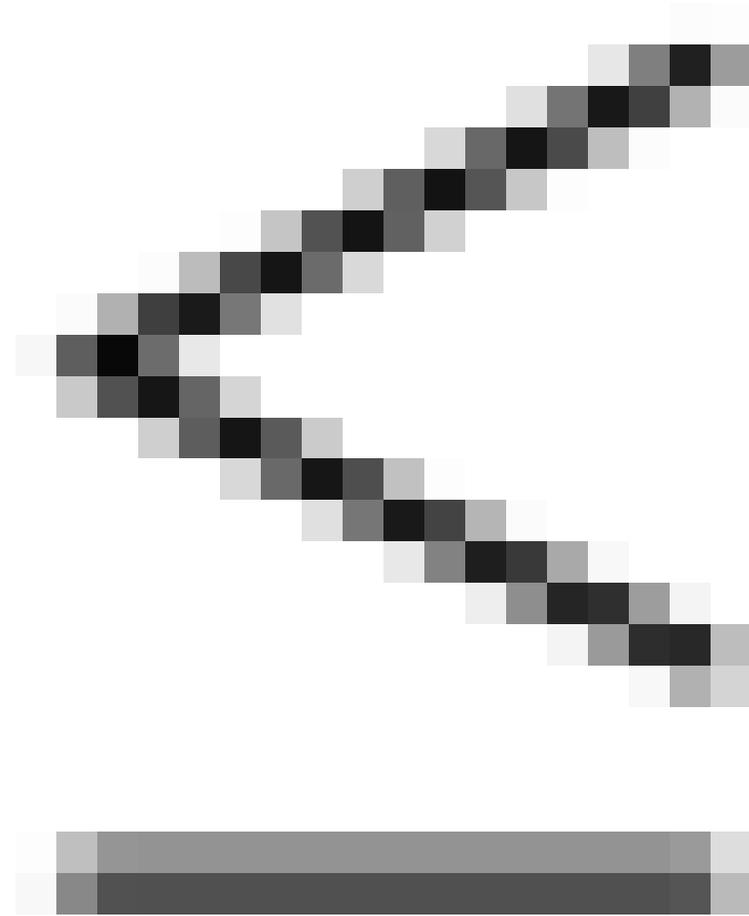
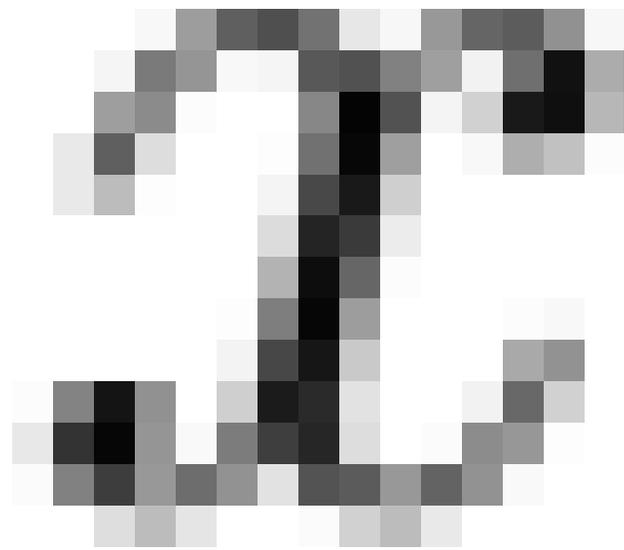
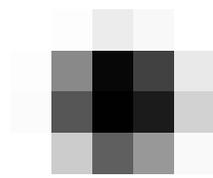
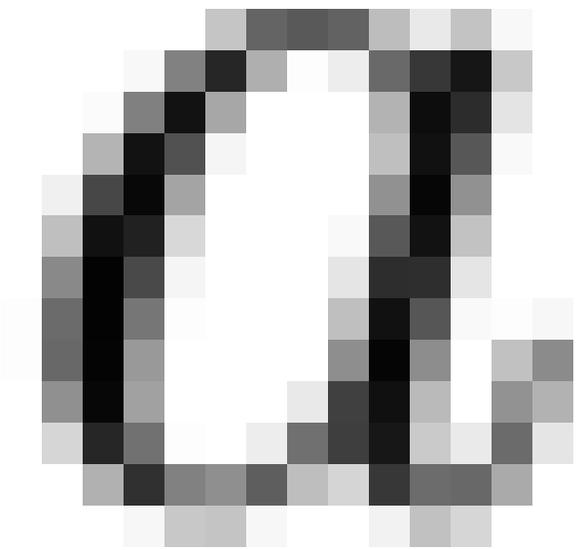
$$x - 6 \cdot (0.16666666666666667x - 0.16666666666666667) = 1$$

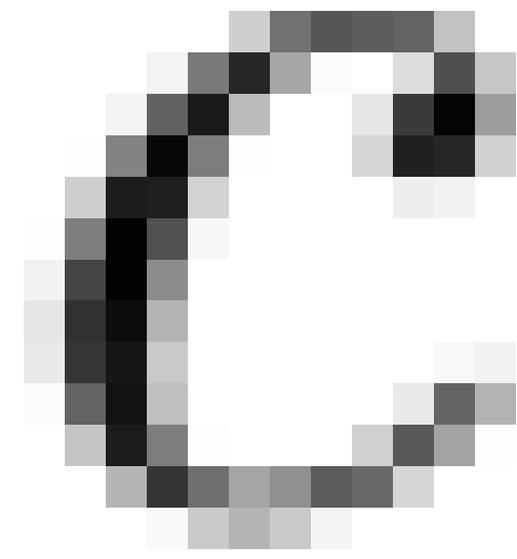
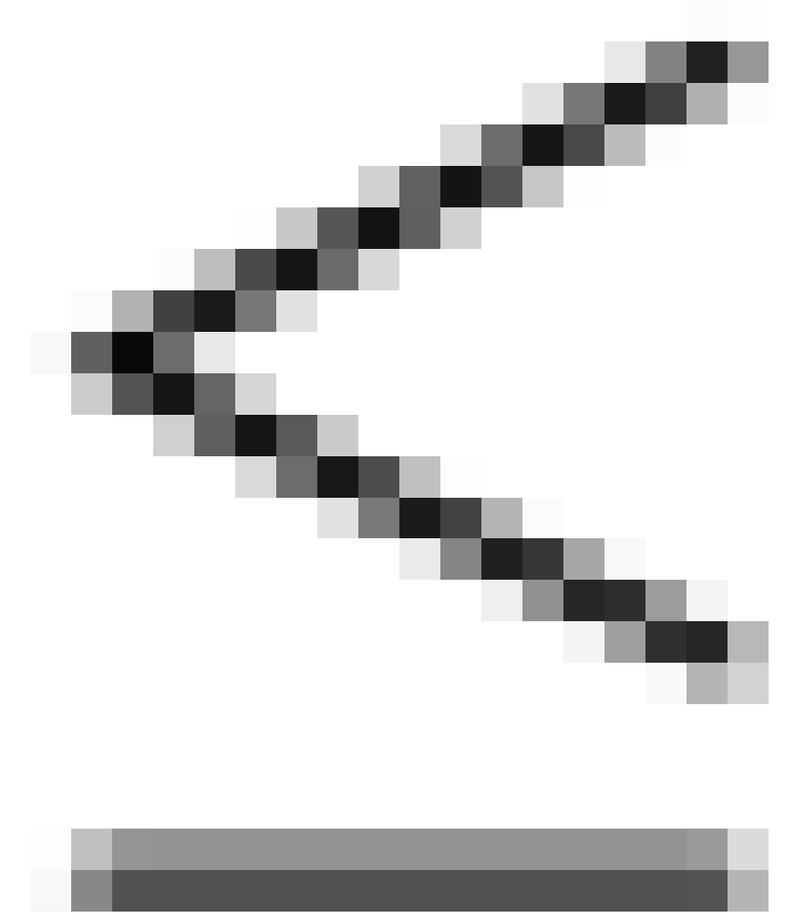
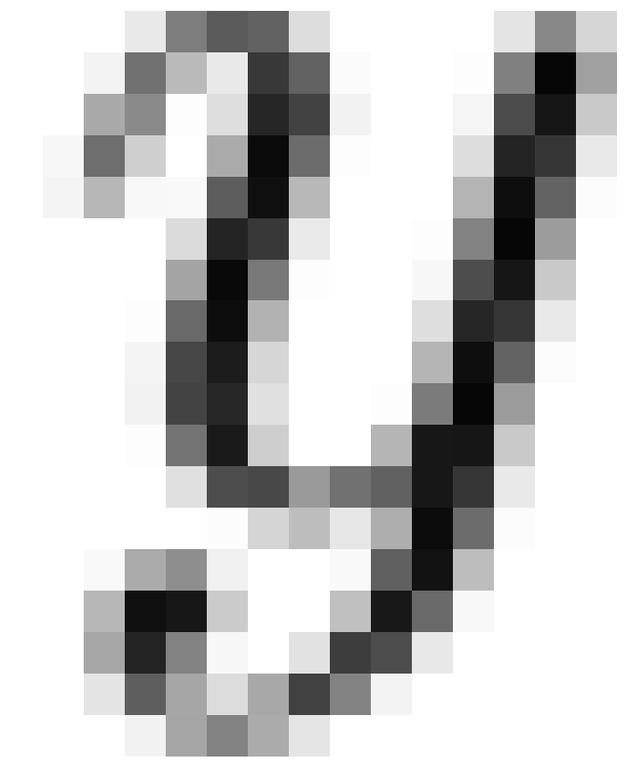
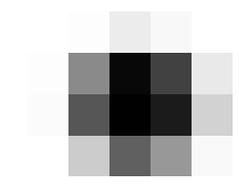
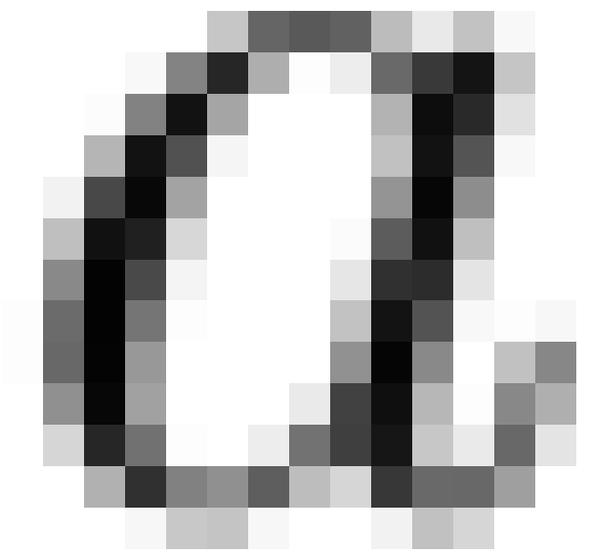
$$\Leftrightarrow 2 \cdot 10^{-16}x + 1 + 2 \cdot 10^{-16} \approx 1$$



A pixelated representation of the digit 1, rendered in a grayscale gradient. It features a vertical stem with a horizontal top bar and a horizontal base bar.A pixelated representation of the digit 2, rendered in a grayscale gradient. It has a curved top, a horizontal middle bar, and a curved bottom.A pixelated representation of the digit 1, rendered in a grayscale gradient. It features a vertical stem with a horizontal top bar and a horizontal base bar.A pixelated representation of the digit 4, rendered in a grayscale gradient. It consists of a vertical stem, a horizontal middle bar, and a horizontal top bar.A pixelated representation of the digit 2, rendered in a grayscale gradient. It has a curved top, a horizontal middle bar, and a curved bottom.A pixelated representation of the digit 0, rendered in a grayscale gradient. It is a small, solid black square.A pixelated representation of the digit 1, rendered in a grayscale gradient. It features a vertical stem with a horizontal top bar and a horizontal base bar.A pixelated representation of the digit 0, rendered in a grayscale gradient. It is a large, hollow circle with a thick border.A pixelated representation of the digit 1, rendered in a grayscale gradient. It is a horizontal bar.A pixelated representation of the number 10, rendered in a grayscale gradient. It consists of a vertical stem with a horizontal top bar and a horizontal base bar, followed by a large, hollow circle.







\min

0

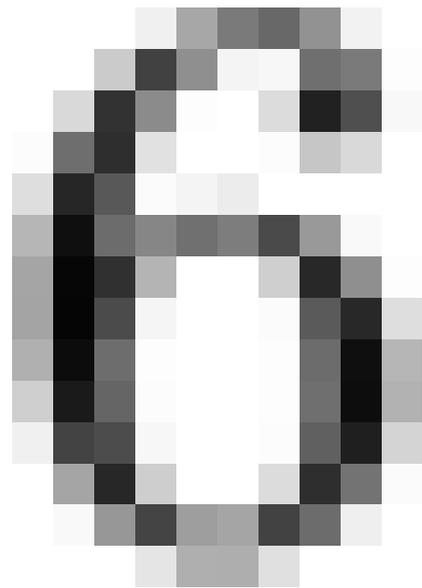
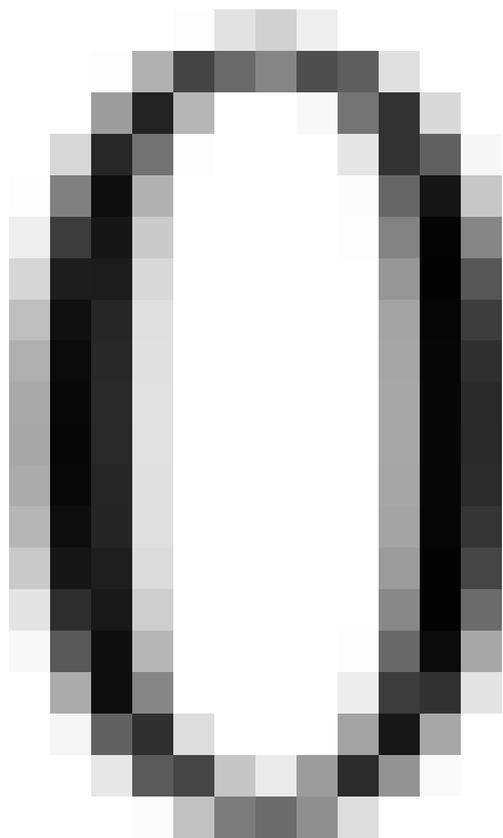
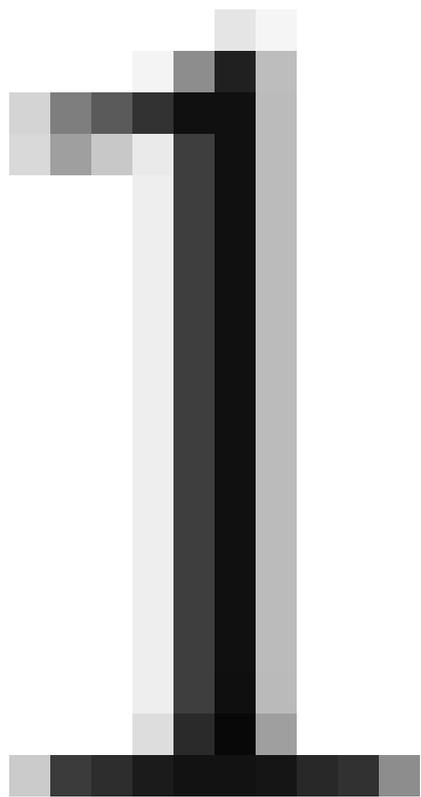
s.t.

$x \leq$

0

$x \geq$

10^{-10}



1

0

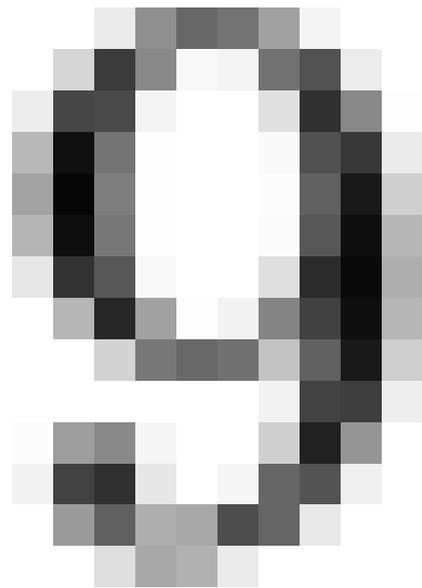
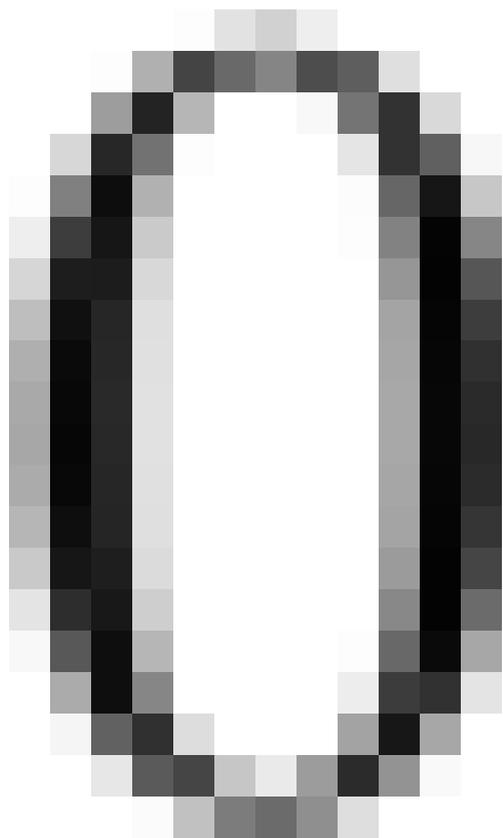
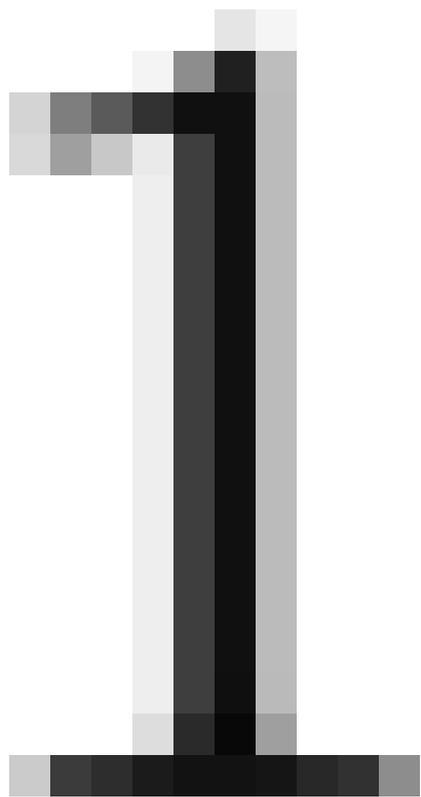
—

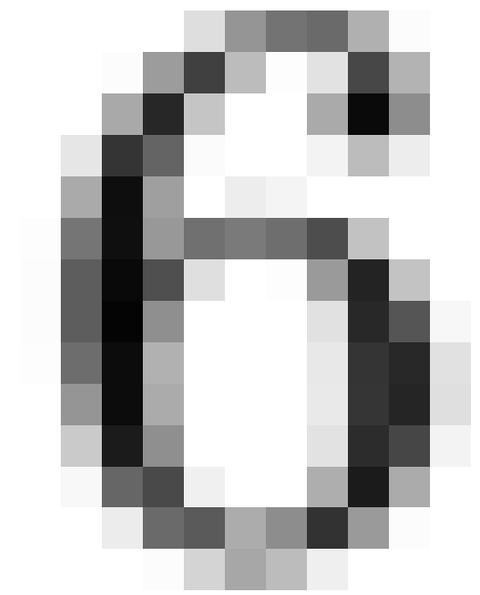
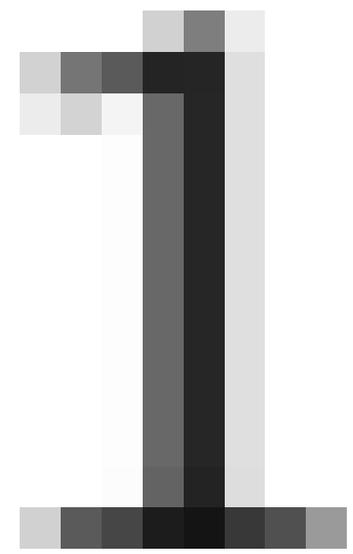
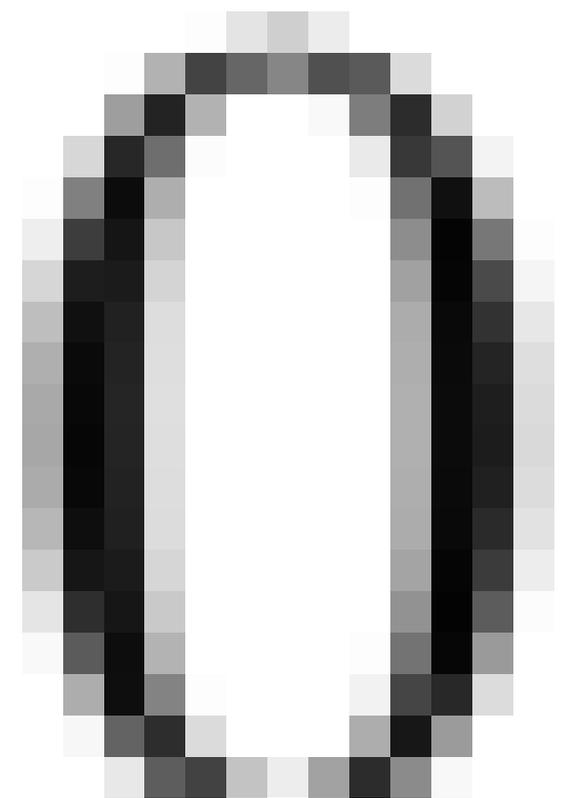
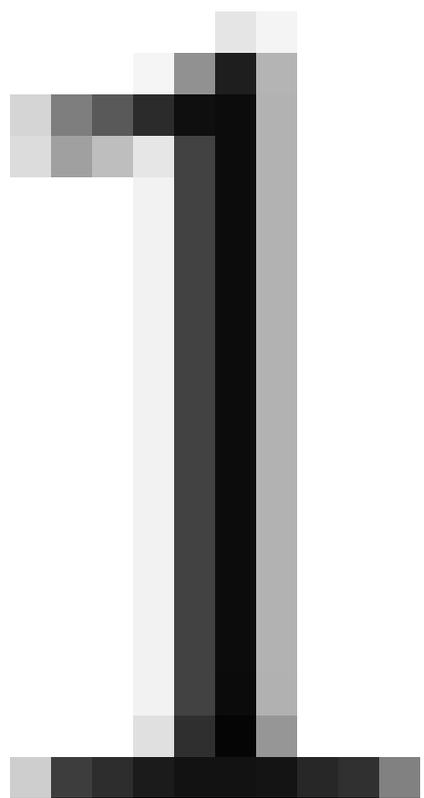
5

1

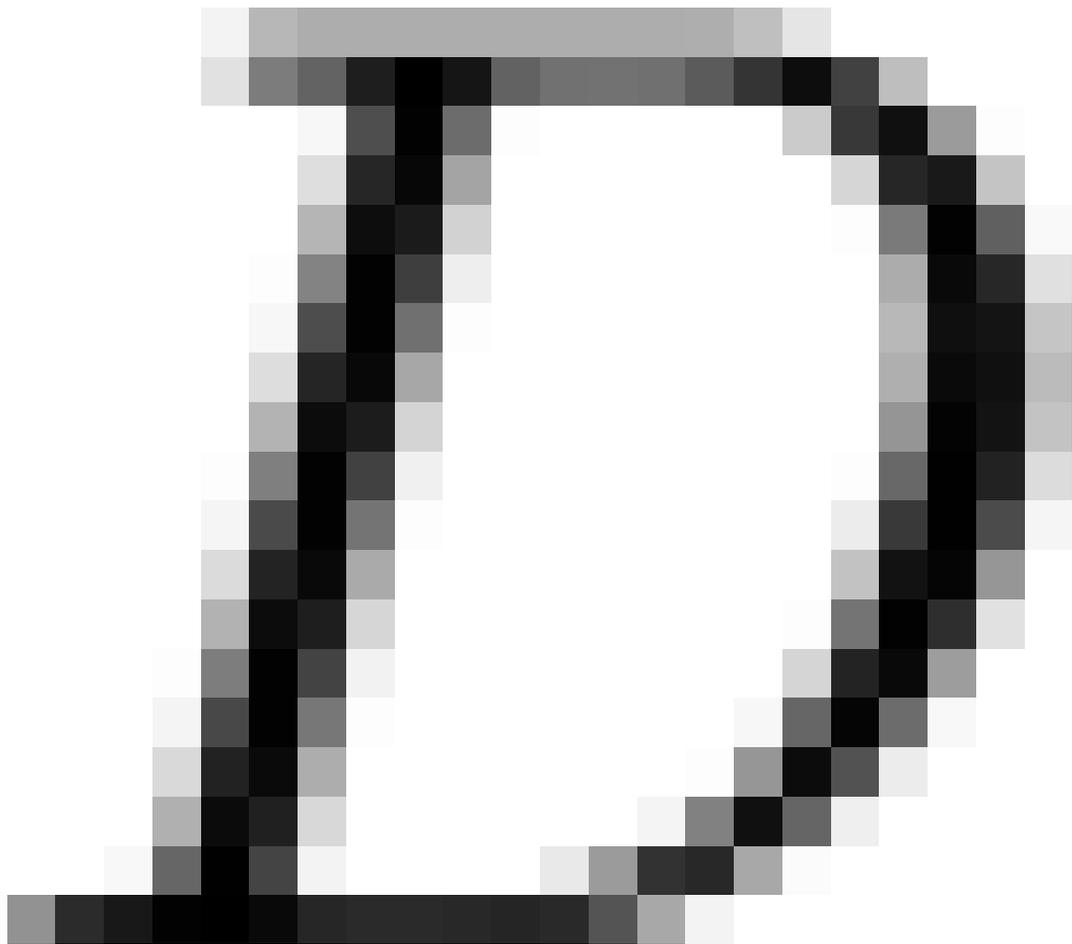
0

9





$(P) \rightarrow (Q \rightarrow R) \rightarrow (Q \rightarrow R) \rightarrow (P \rightarrow Q) \rightarrow (P \rightarrow R)$



100

100

100

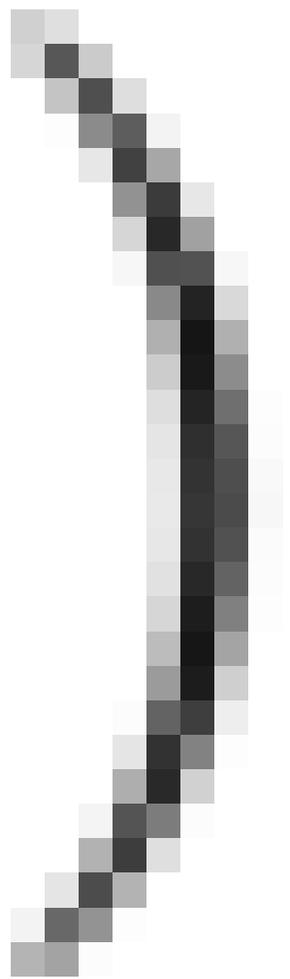
100

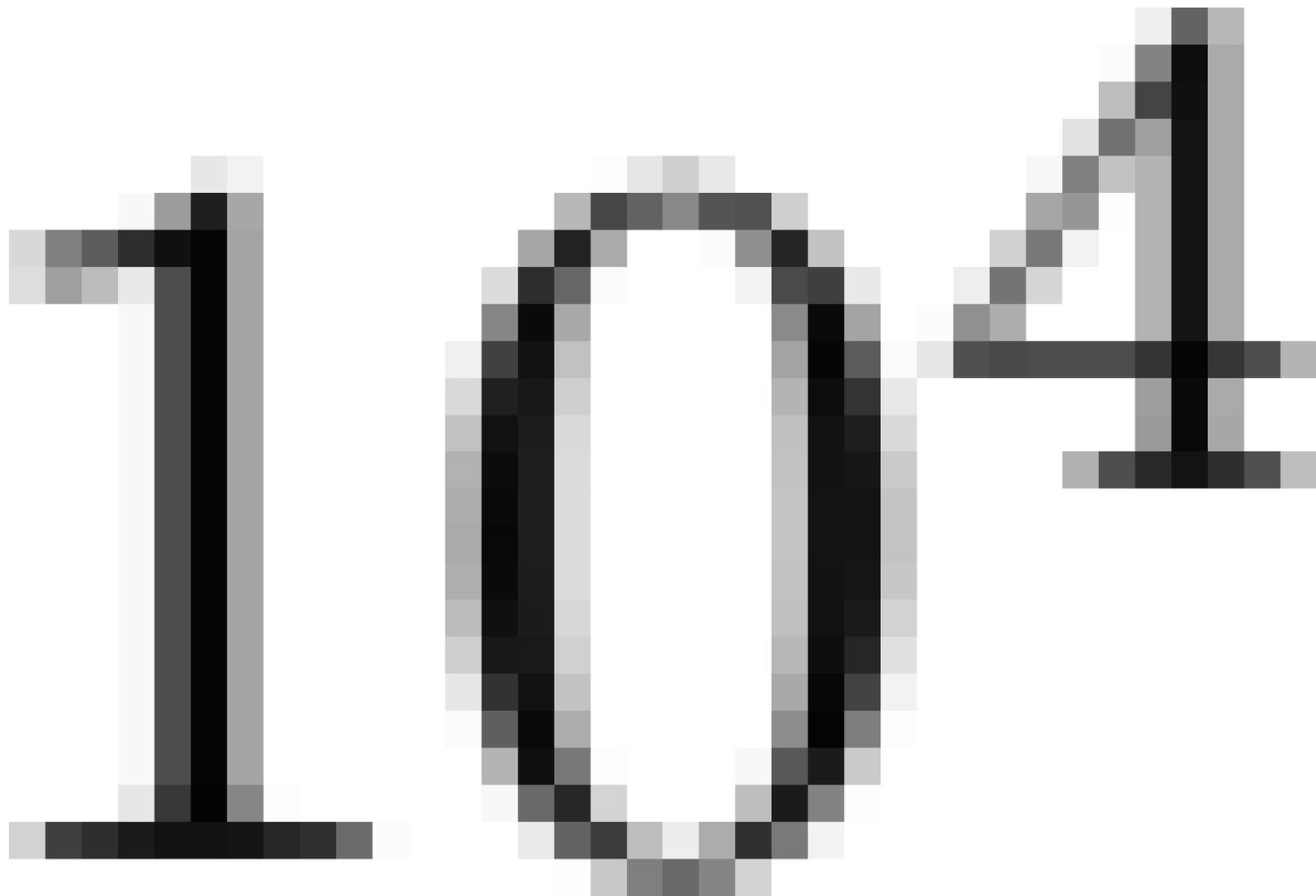


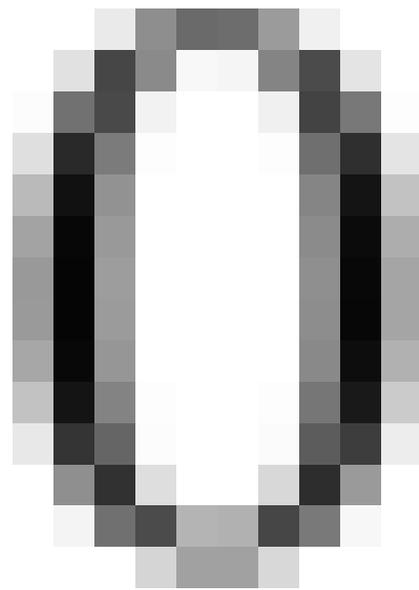
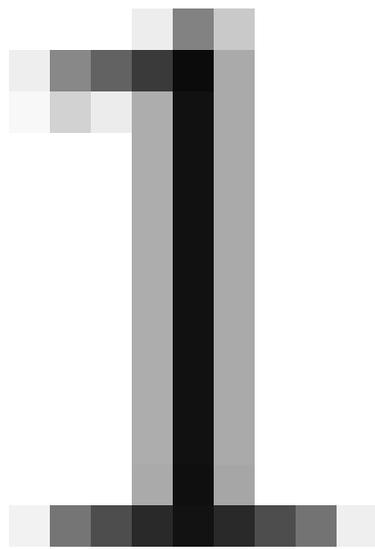
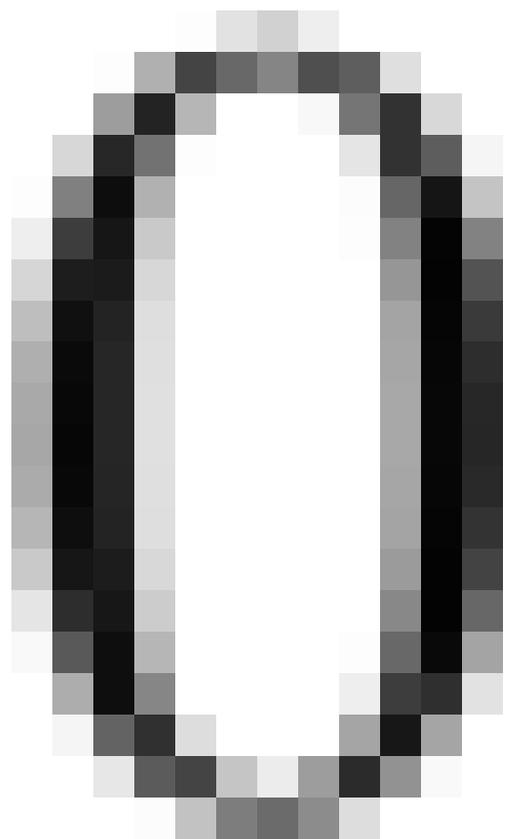
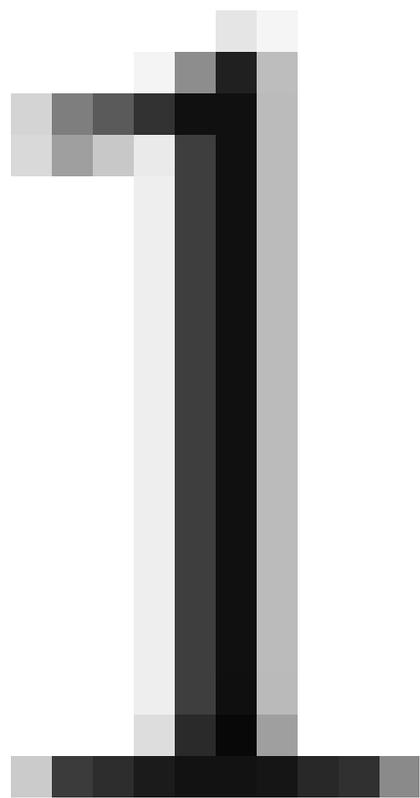


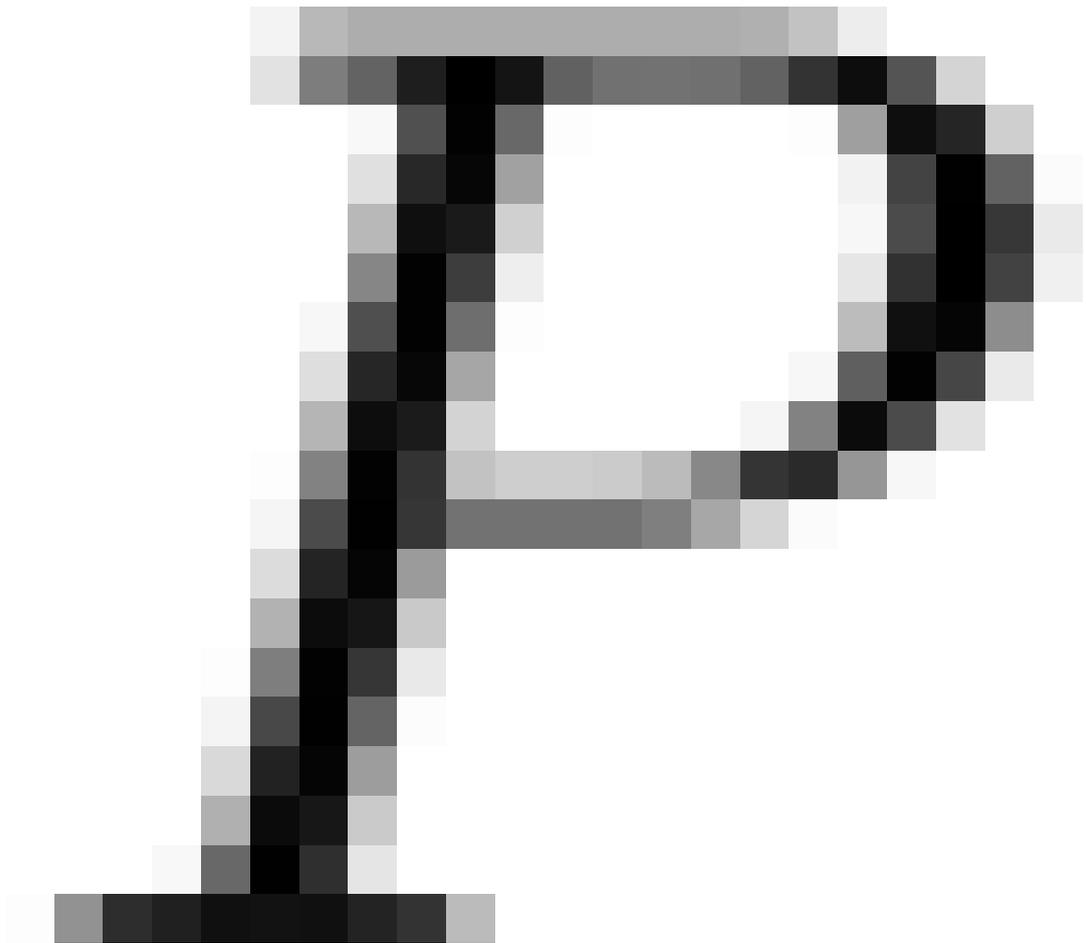
THE

WORLD





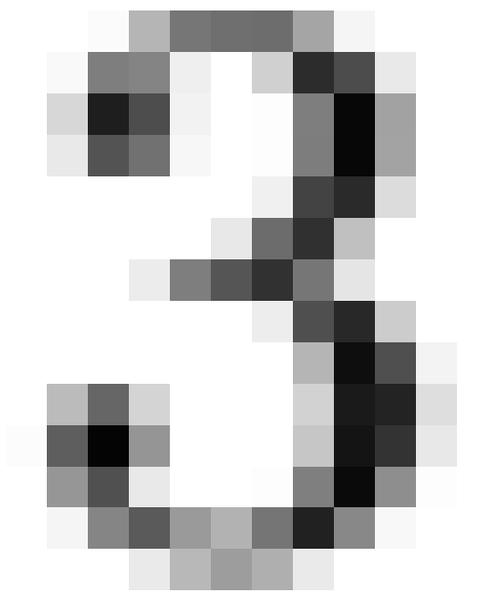
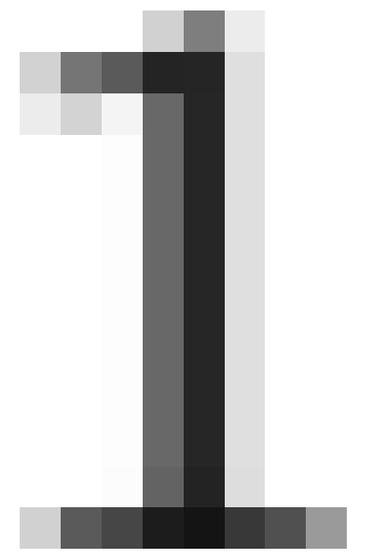
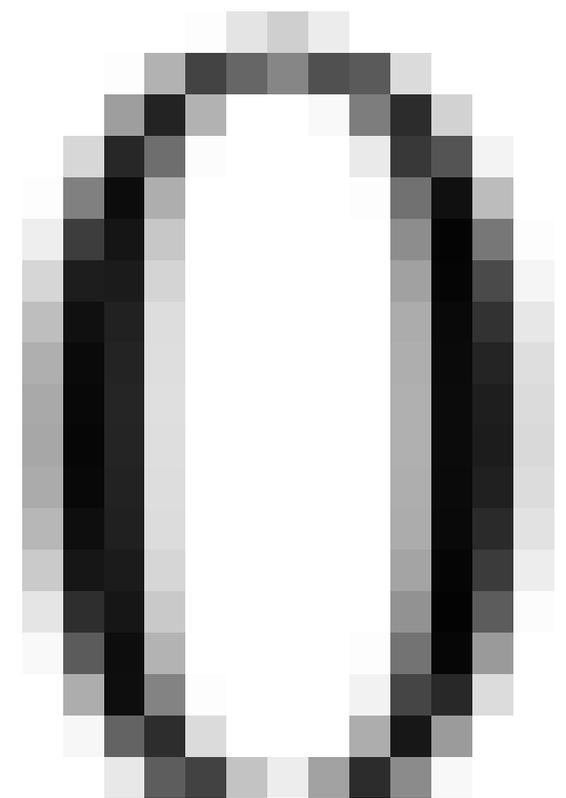
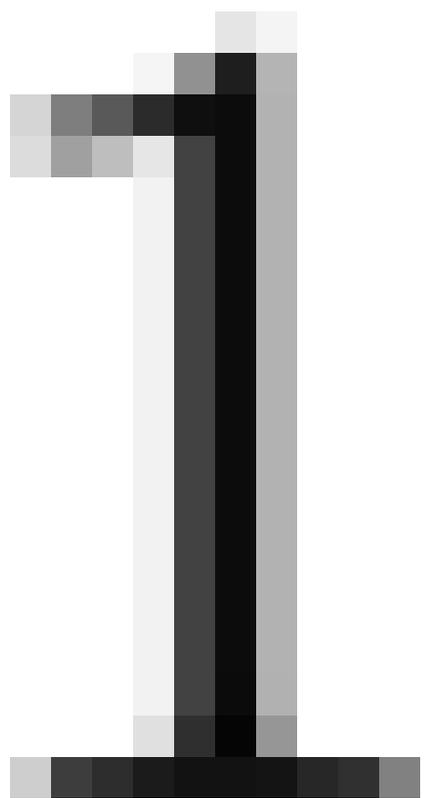




1000

1999

$\frac{d}{dx} \ln(x^2 + 1) = \frac{2x}{x^2 + 1}$



$$\begin{aligned} 10^{-7}x + 10y &\leq 10 \\ x + 10^4z &\leq 10^3 \\ x, y, z &\geq 0, \end{aligned}$$

105

$$10^{-2}x' + 10y \leq 10$$

$$10^2x' + 10z \leq 1$$

$$x', y, z \geq 0,$$

100%

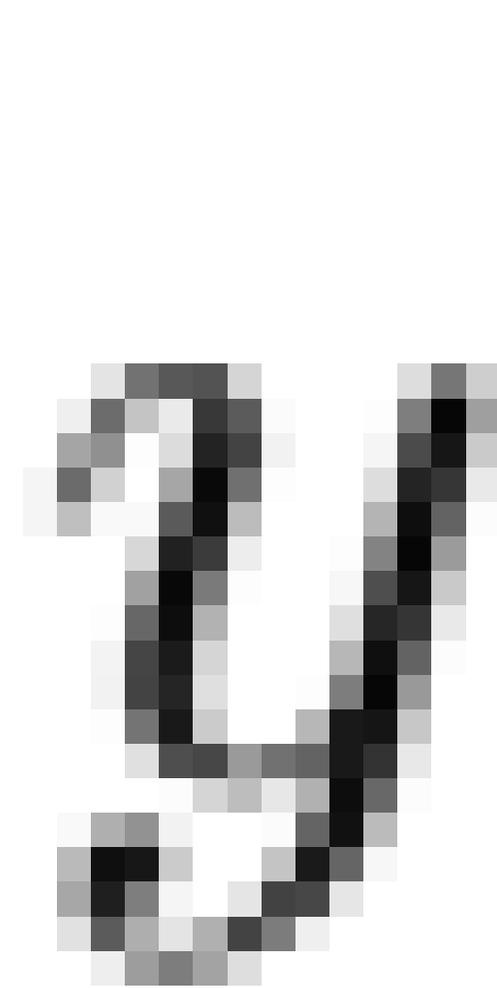
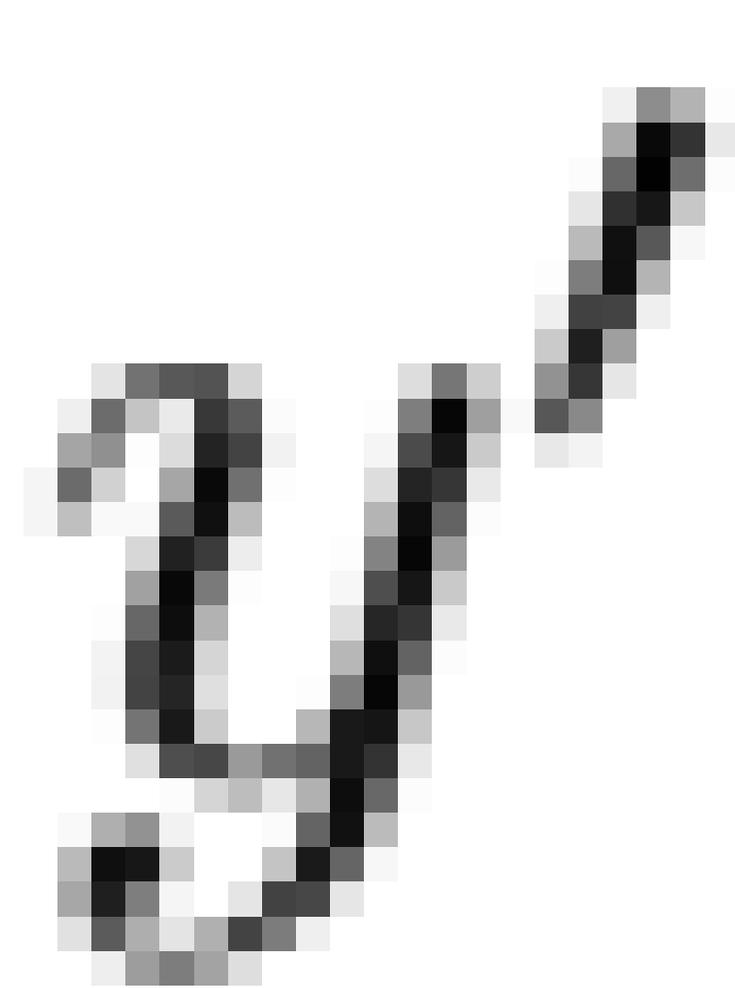
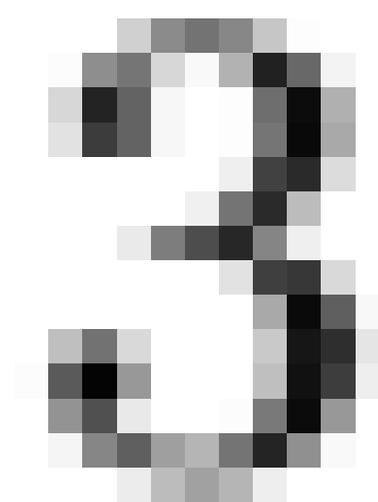
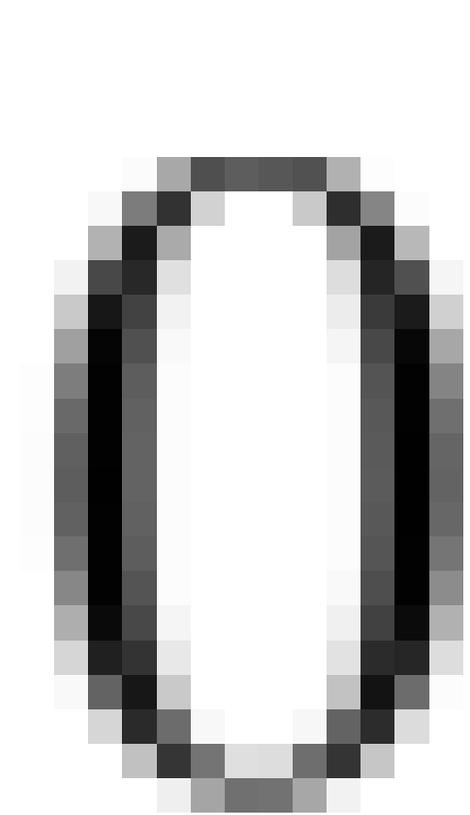
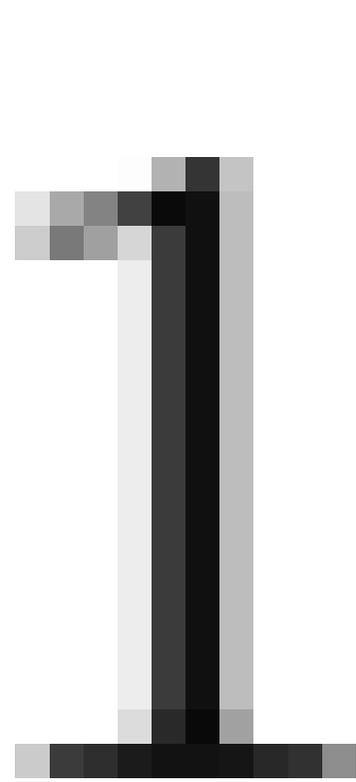
10-21

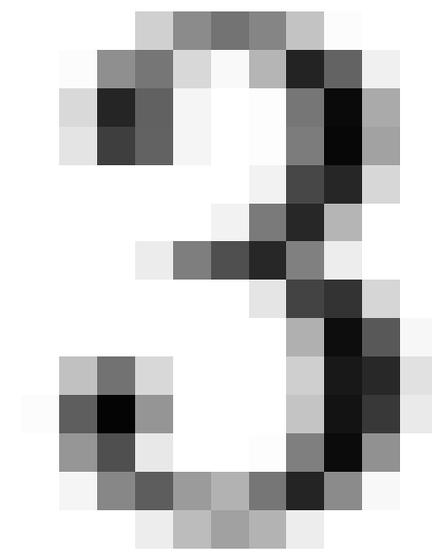
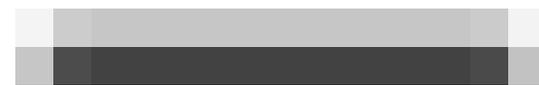
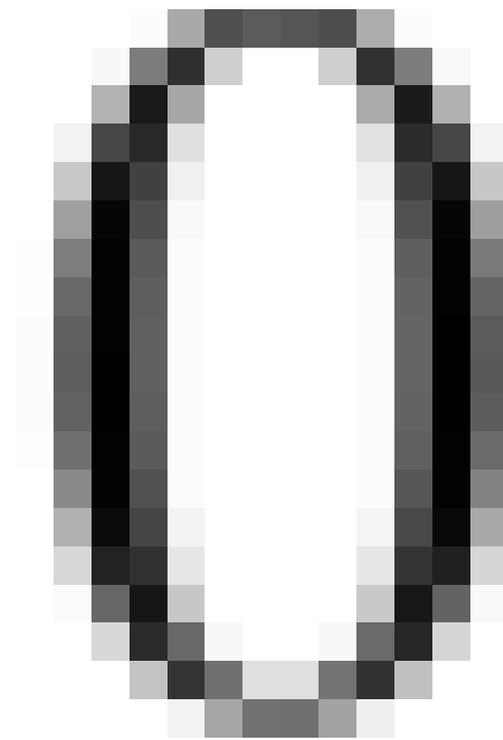
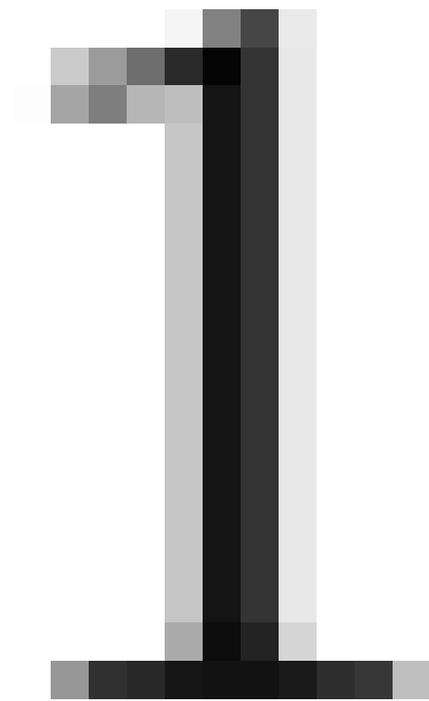
100-3 100-3

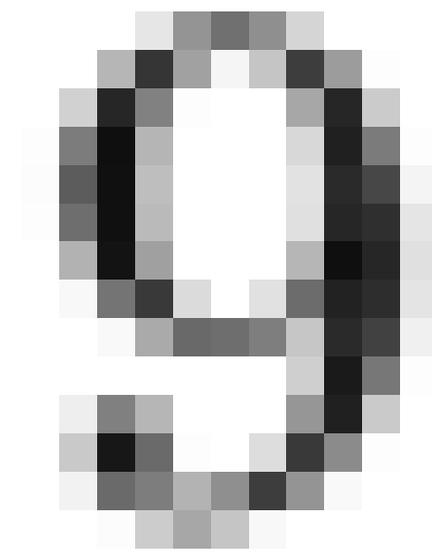
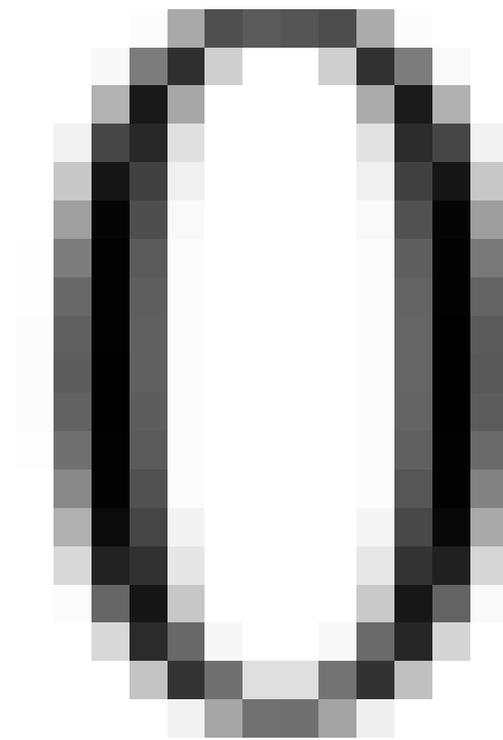
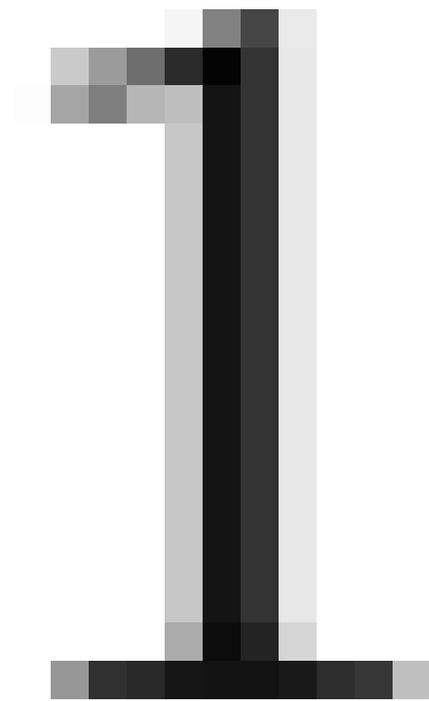
$$x - 10^6 y \geq 0$$
$$y \in [0, 10]$$

$$\begin{aligned}x - 10y_1 &\geq 0 \\y_1 - 10y_2 &= 0 \\y_2 - 10y_3 &= 0 \\y_3 - 10y_4 &= 0 \\y_4 - 10y_5 &= 0 \\y_5 - 10y &= 0 \\y &\in [0, 10]\end{aligned}$$

$$x - 10^3 y' \geq 0$$
$$y' \in [0, 10^4]$$

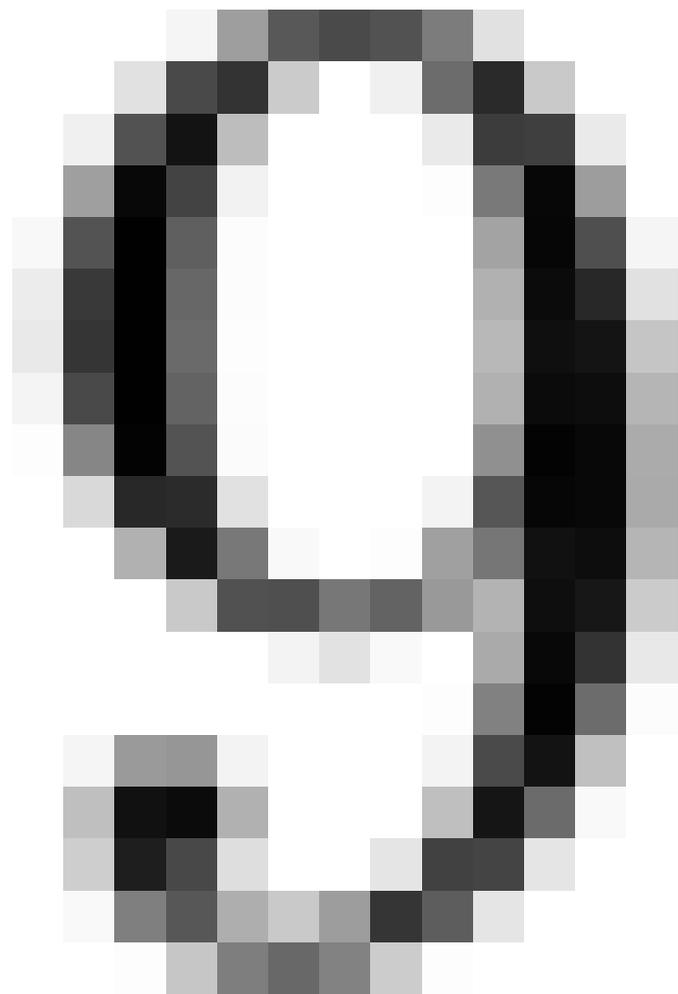
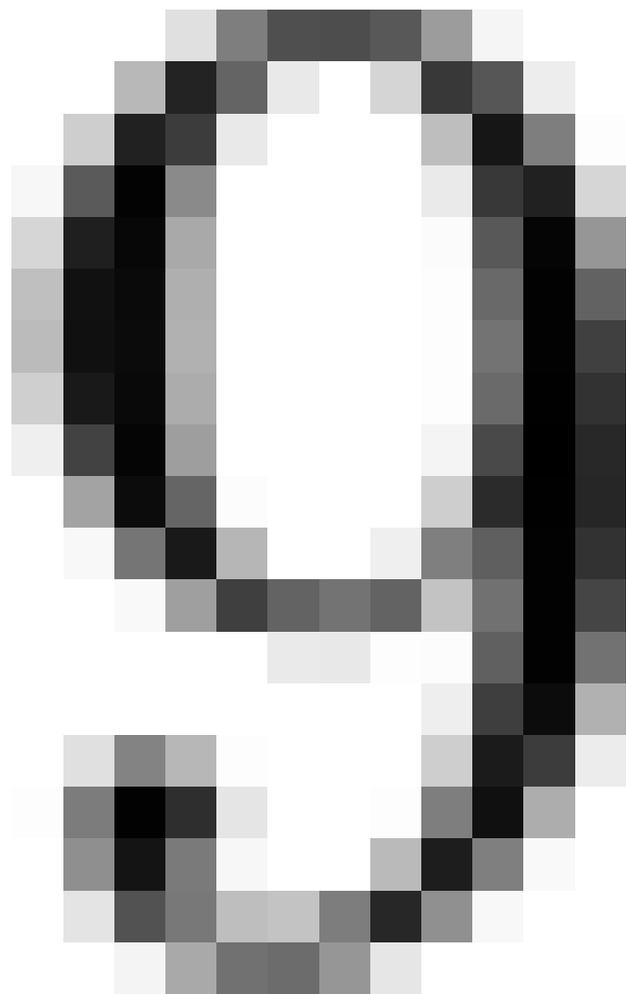
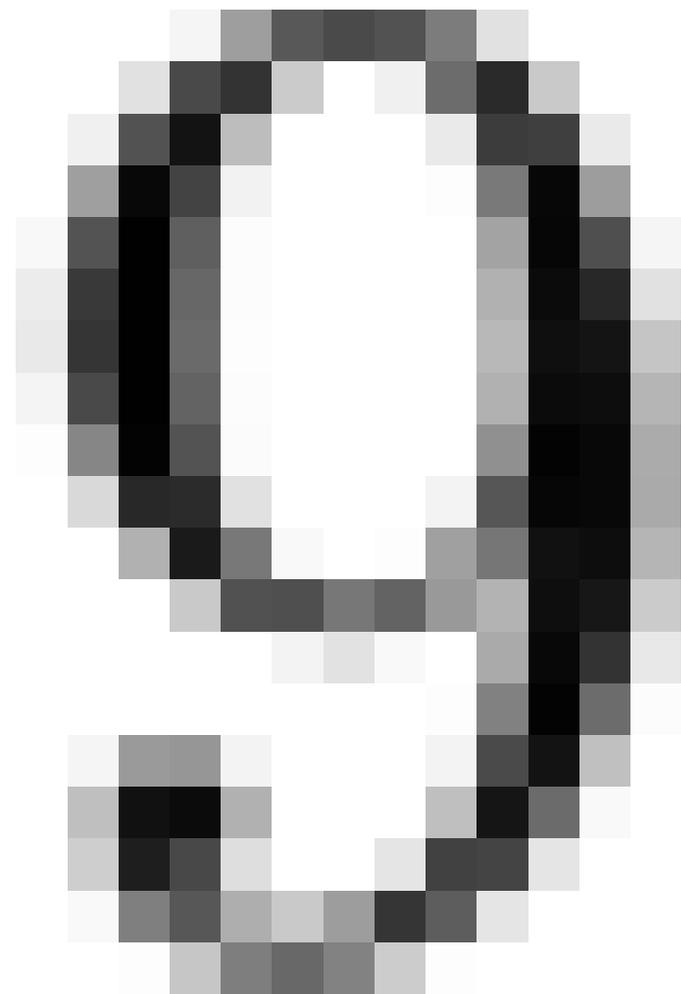
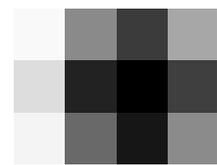
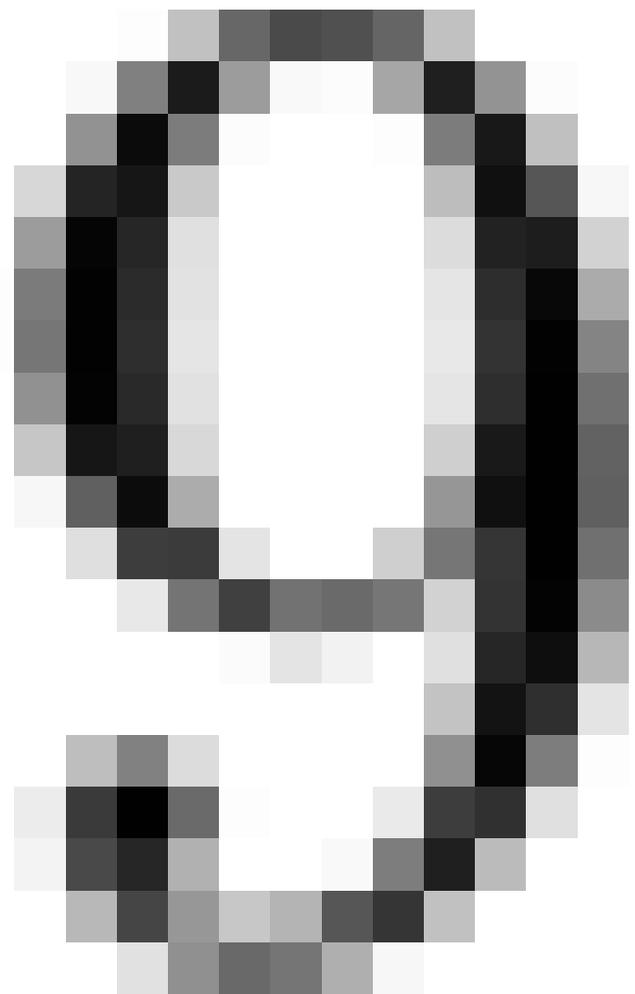






$$\begin{aligned}x &\leq 10^6 y \\x &\geq 0 \\y &\in \{0, 1\},\end{aligned}$$

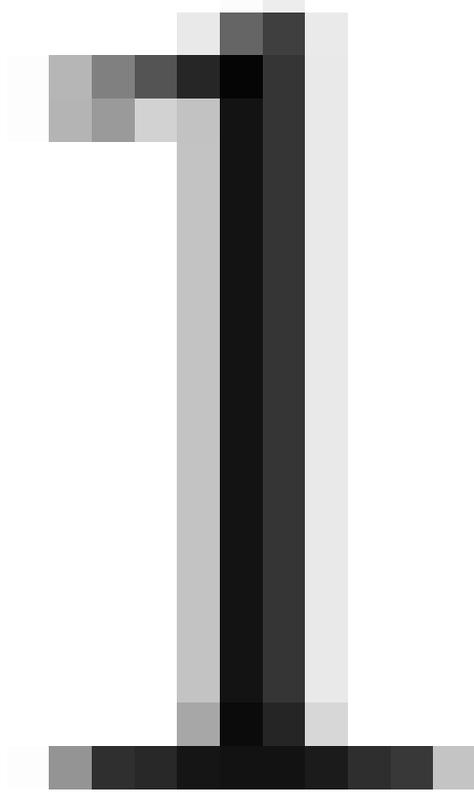
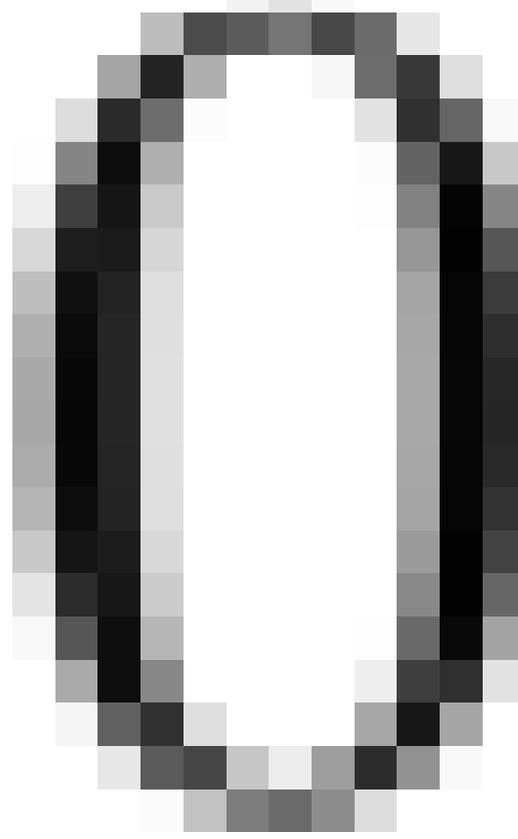
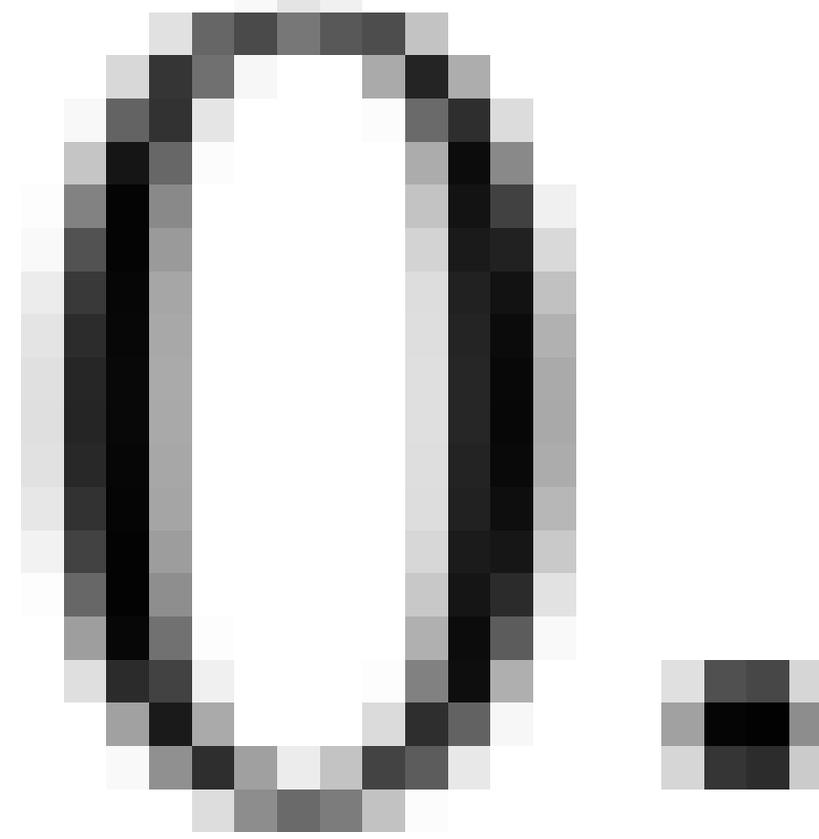
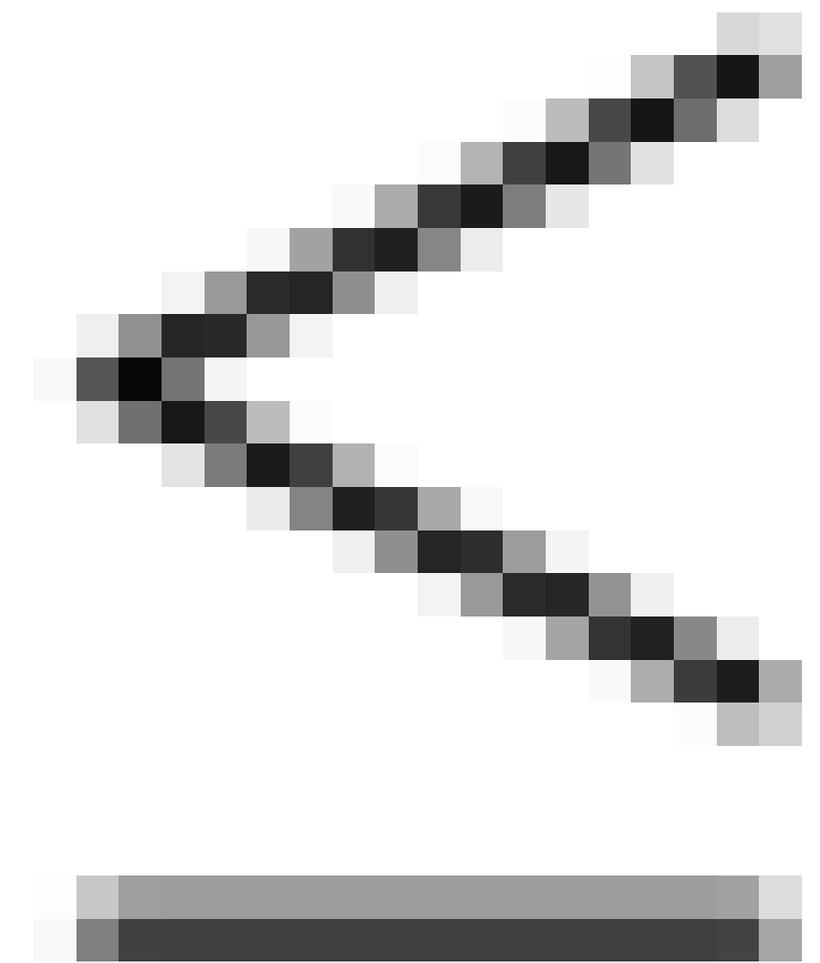
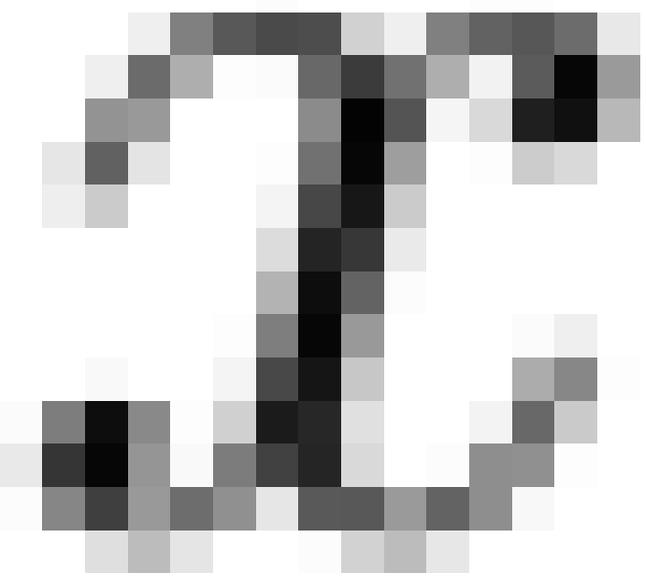
www.woolworths.com.au

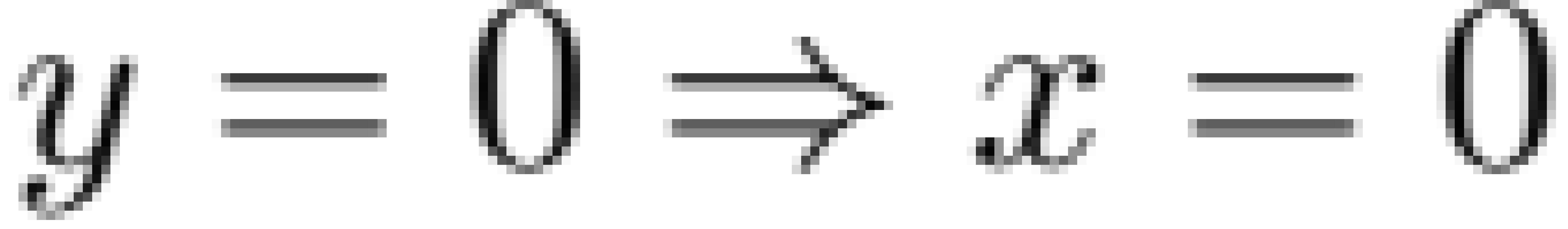


$$x \leq 10^3 y$$

$$x \geq 0$$

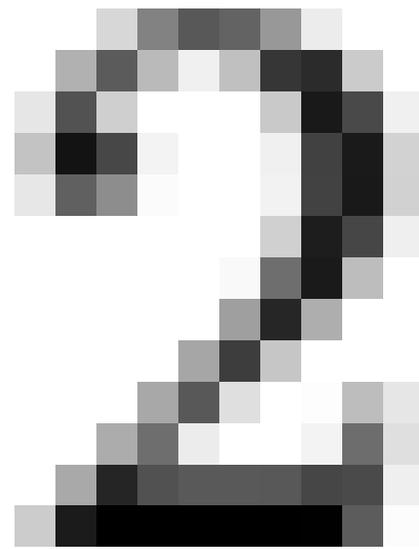
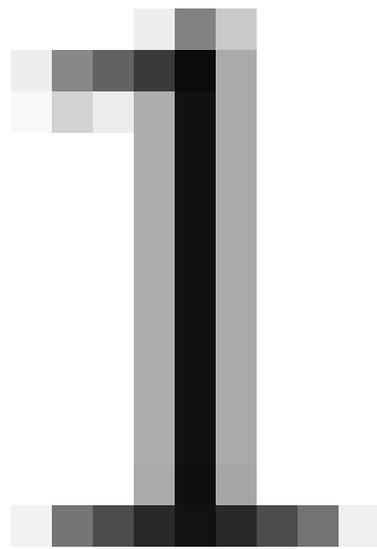
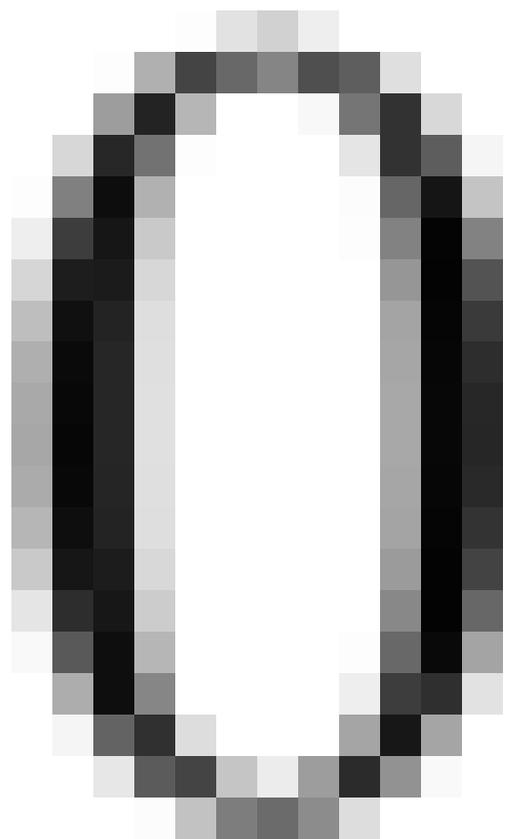
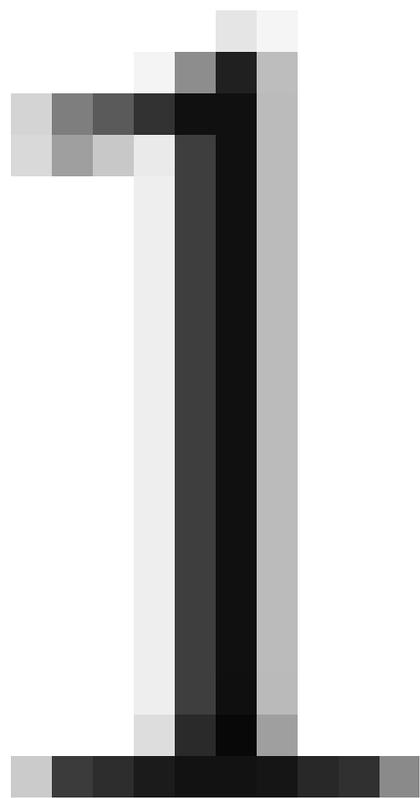
$$y \in \{0, 1\}$$

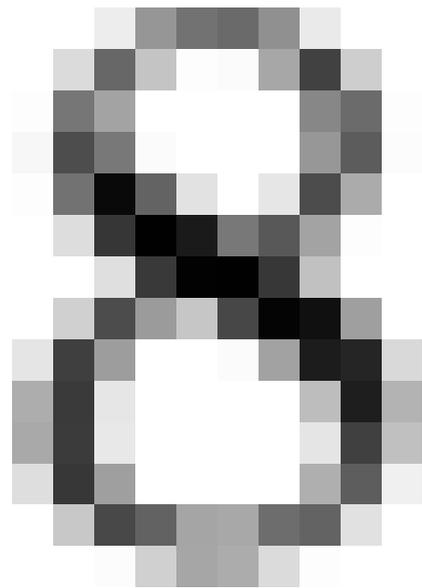
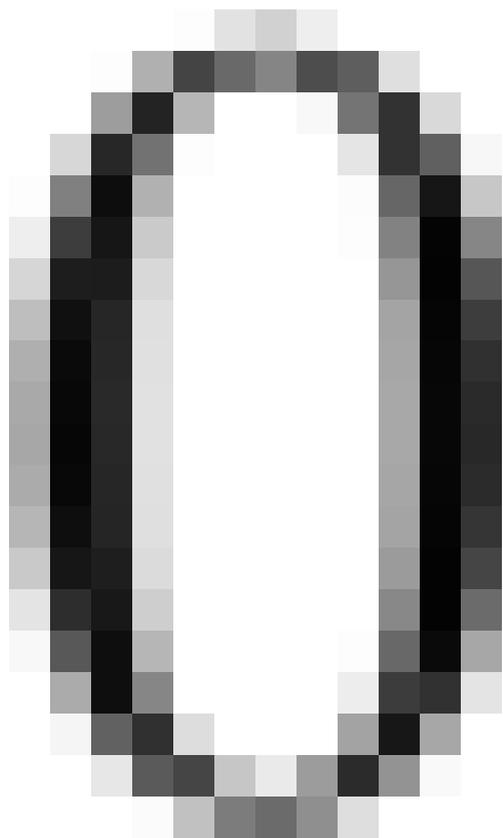
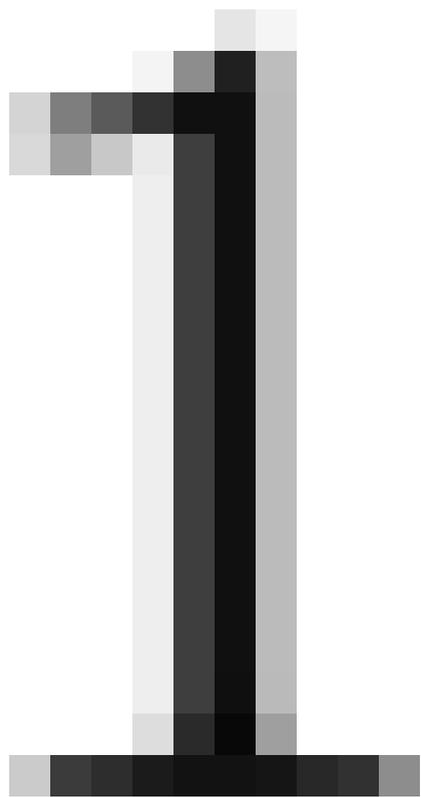


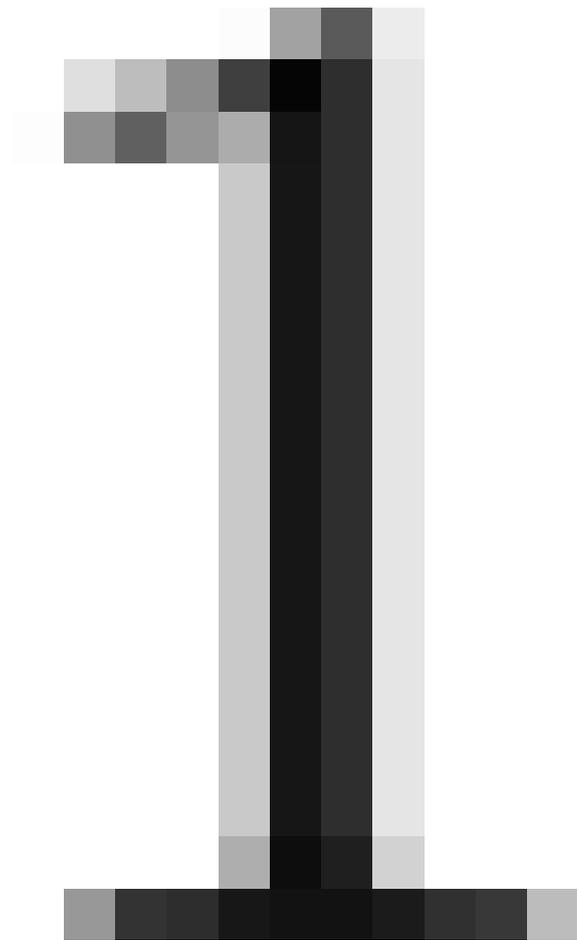
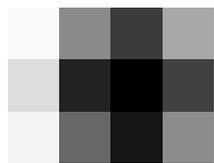
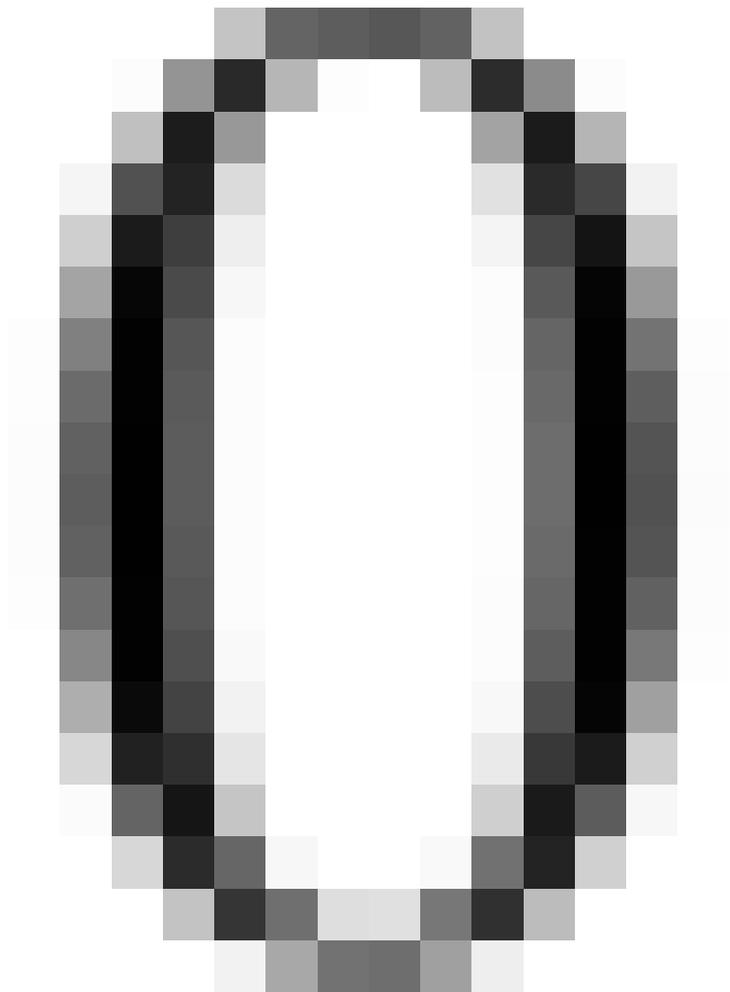


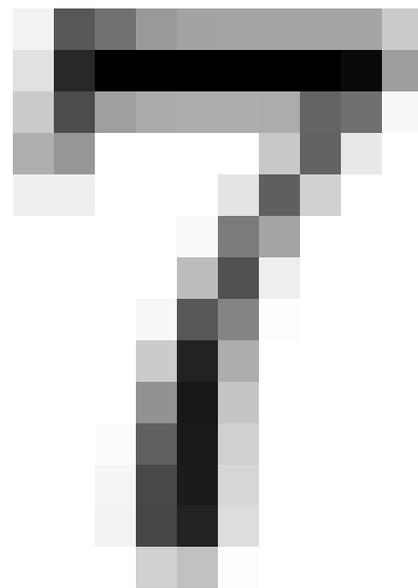
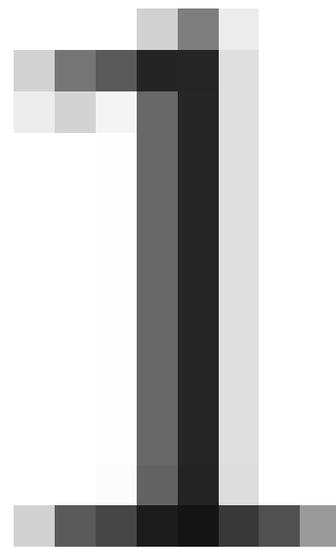
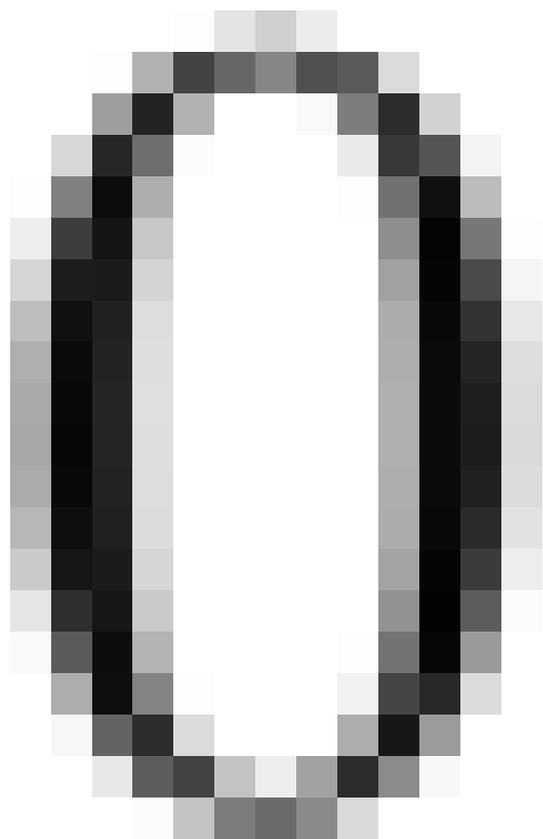
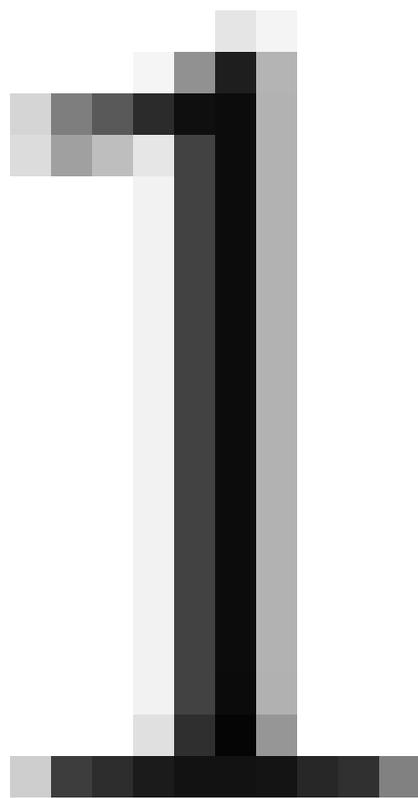
100

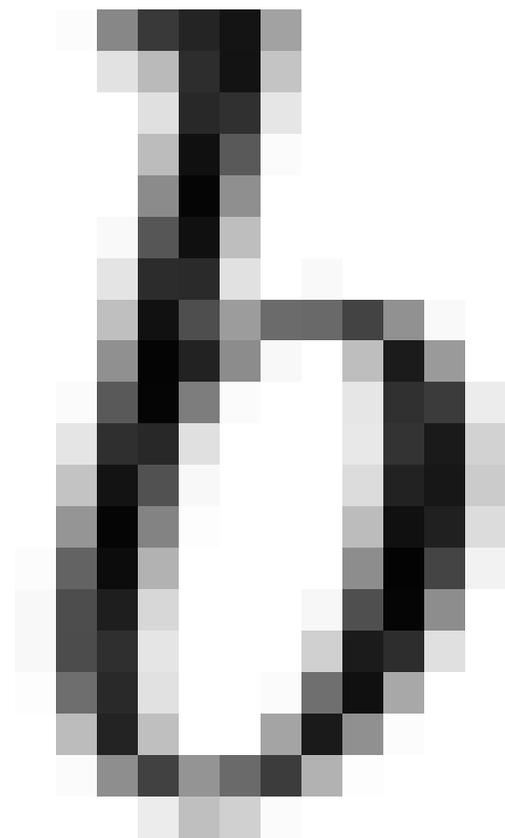
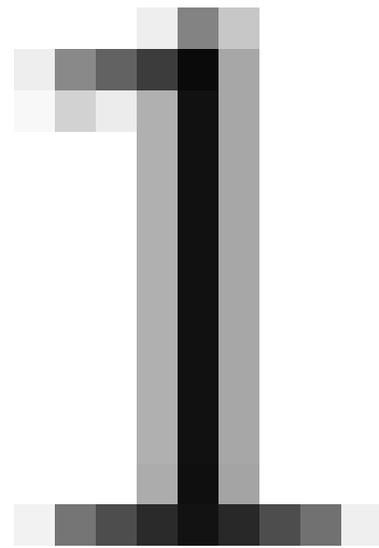
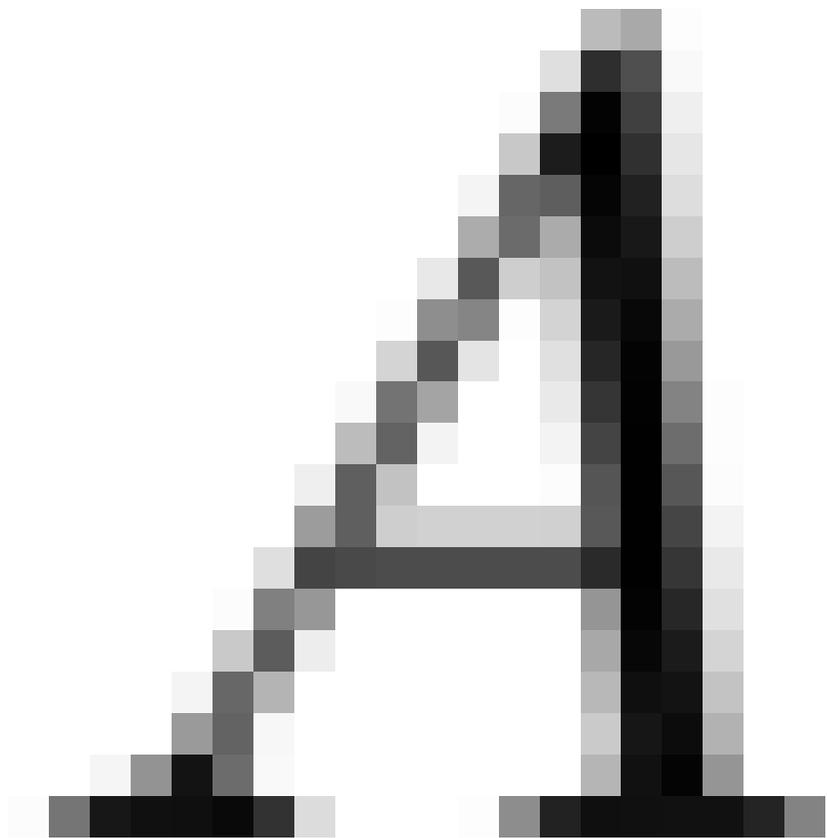
6. 106/00099 = 6066. 106.

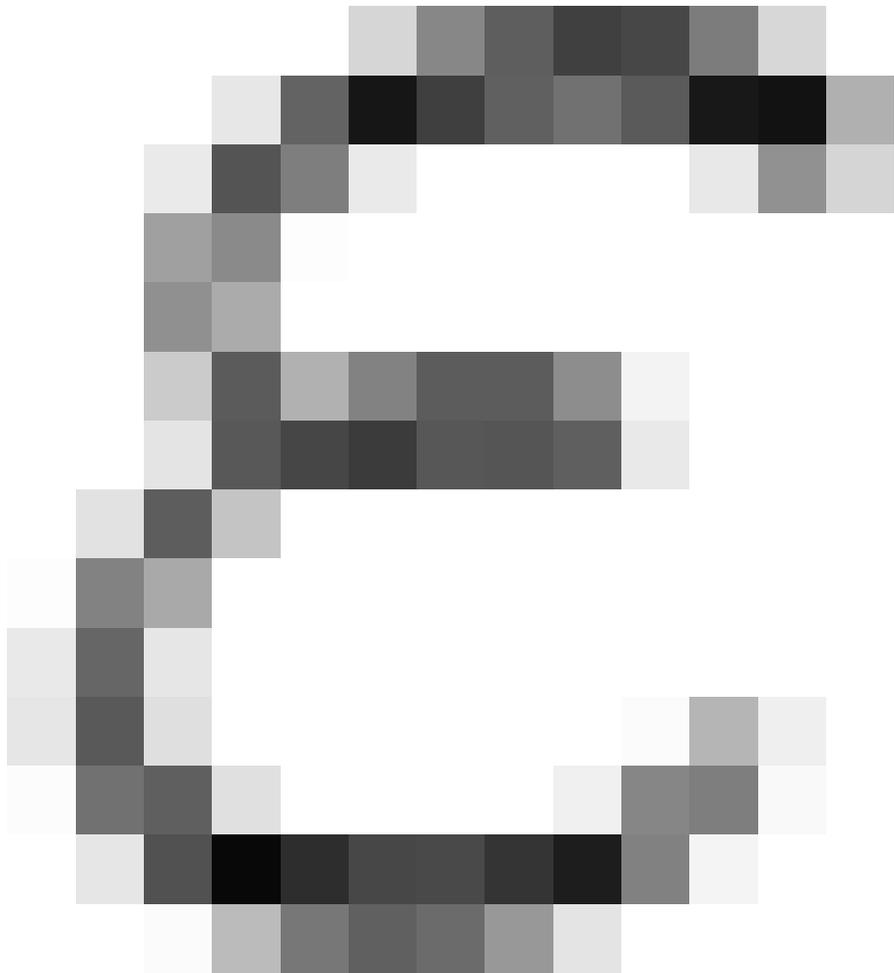












100%

no, e) = $\frac{A-1}{A-1} \frac{b}{b+e}$

W.A. Irving, Jr. and W.D. G.

mwA

=

mwax
mwax

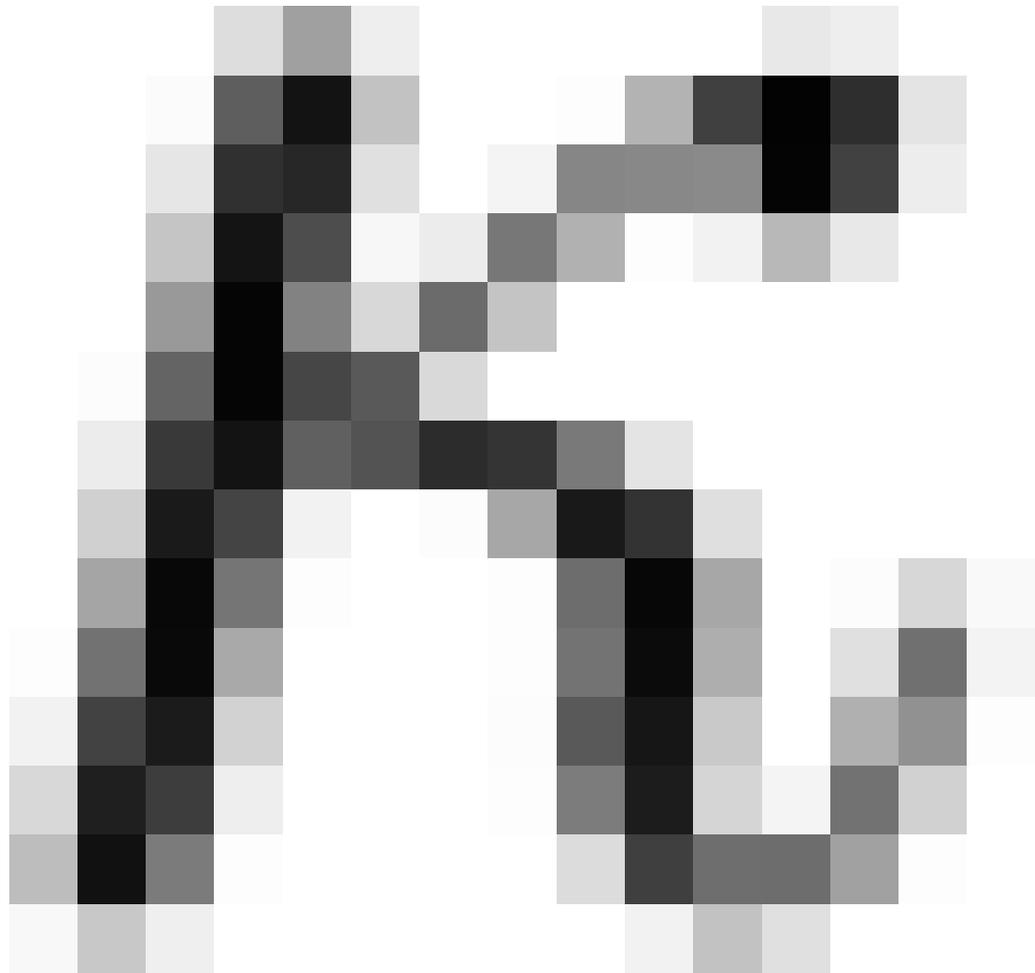


MAA

=

MAA-1

100%



max

$c^T x$

s.t.

Ax

\leq

b .

$$\begin{array}{llll}
 \max & x + y & \vec{c} = & (1, 1) \\
 \text{s.t.} & -x \leq 0 & A_1 = & (-1, 0) \\
 & x \leq 1 & A_2 = & (1, 0) \\
 & -y \leq 0 & A_3 = & (0, -1) \\
 & y \leq 1 & A_4 = & (0, 1).
 \end{array}$$

01

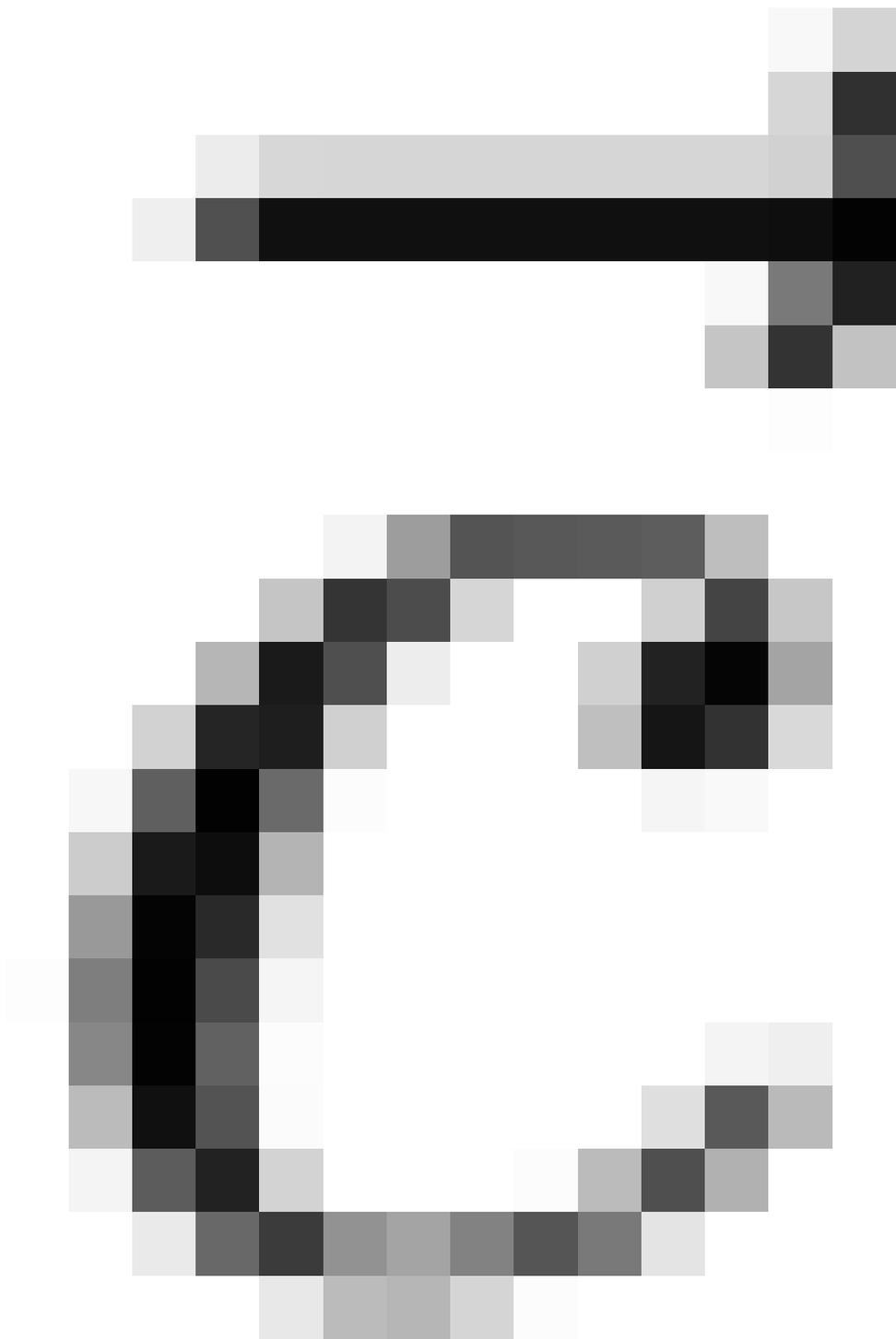
02

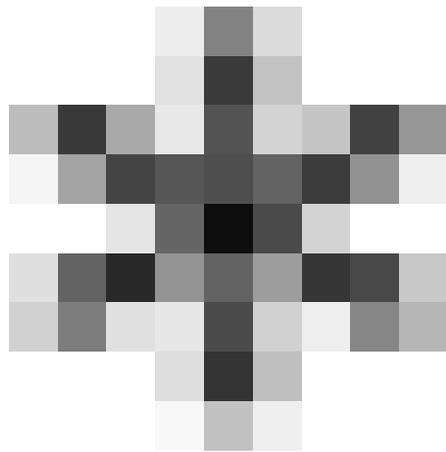
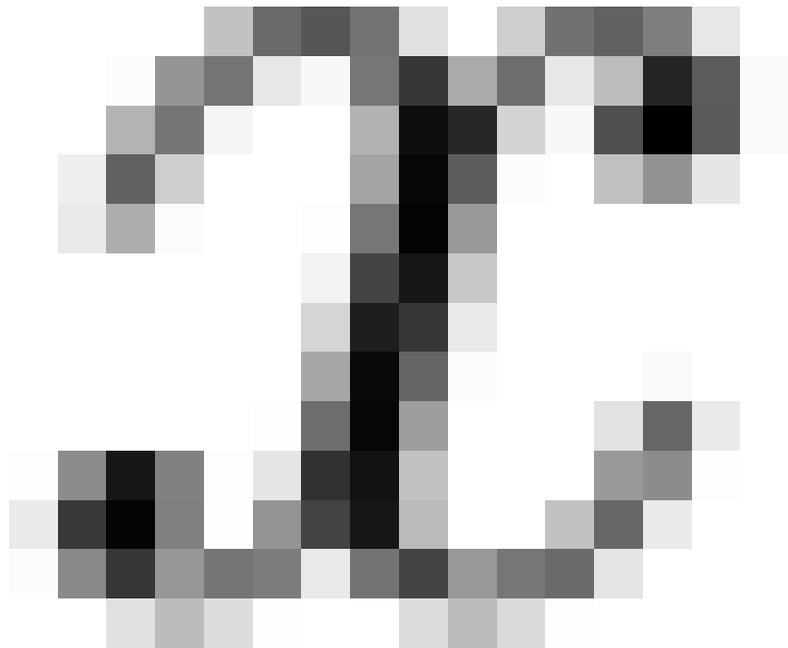
03

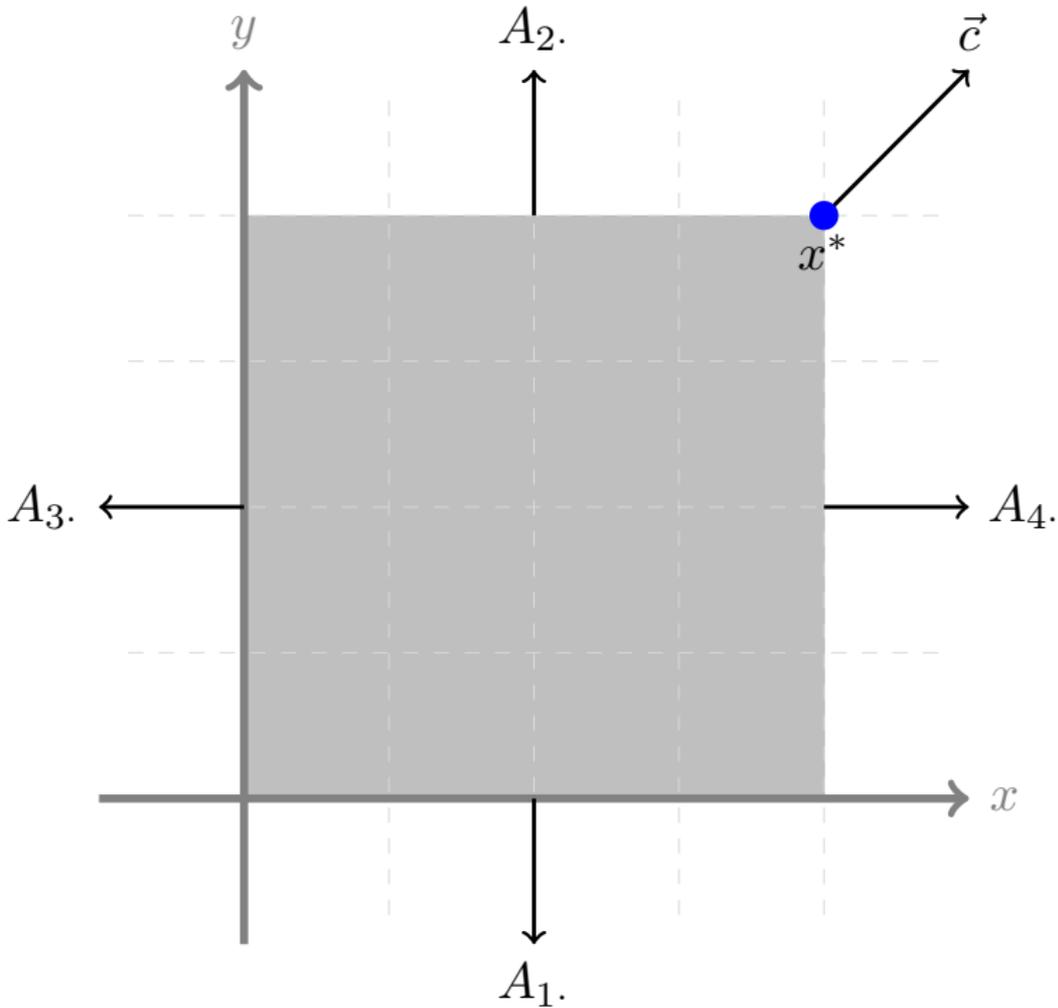
04

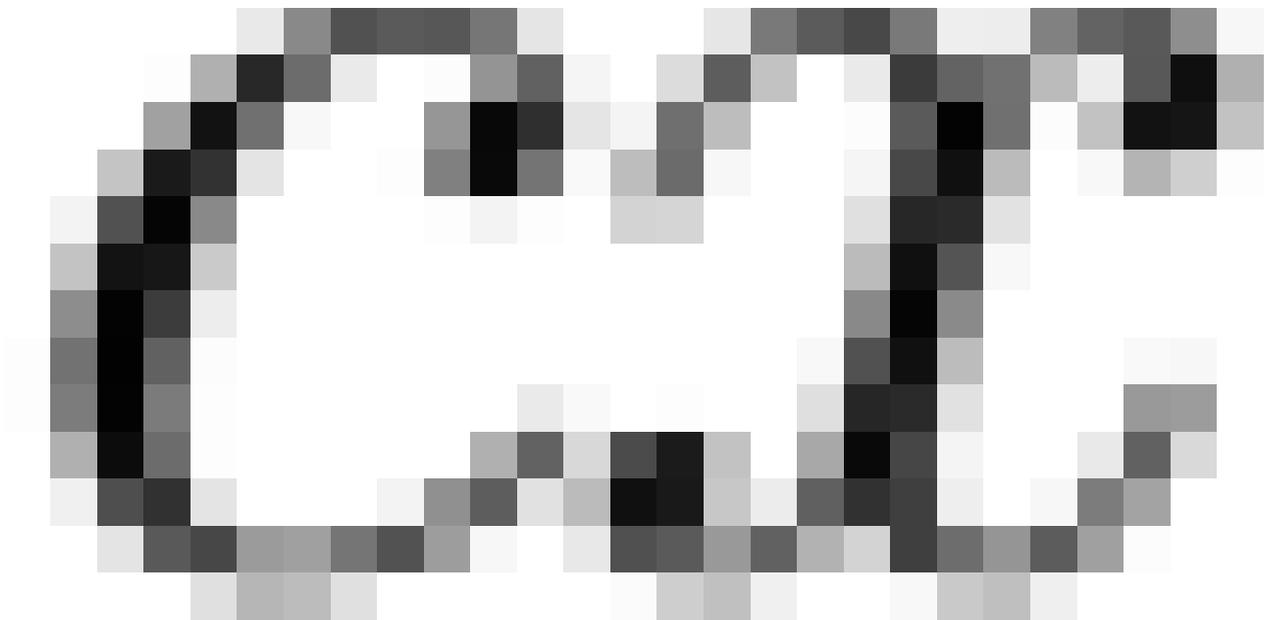
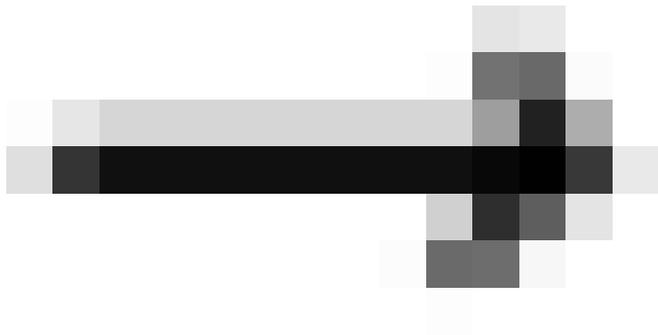
05

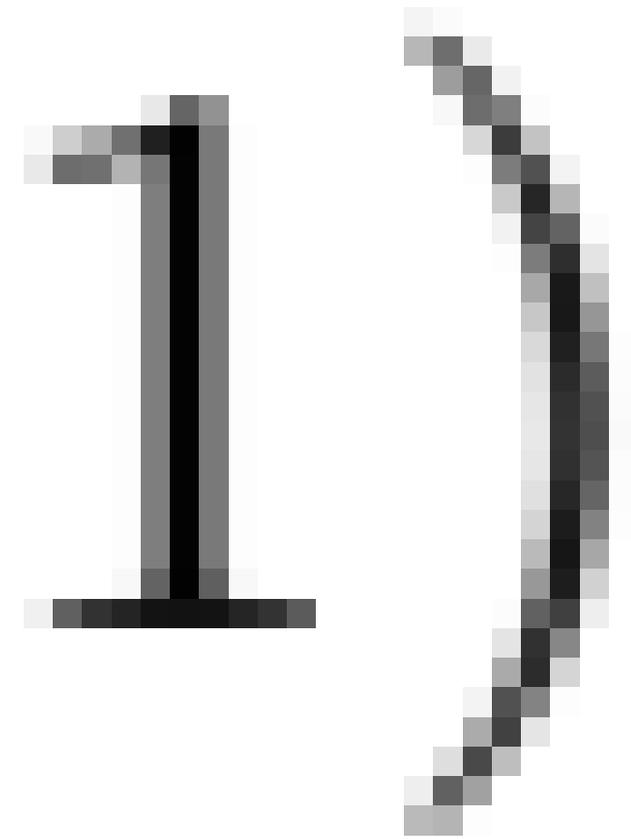
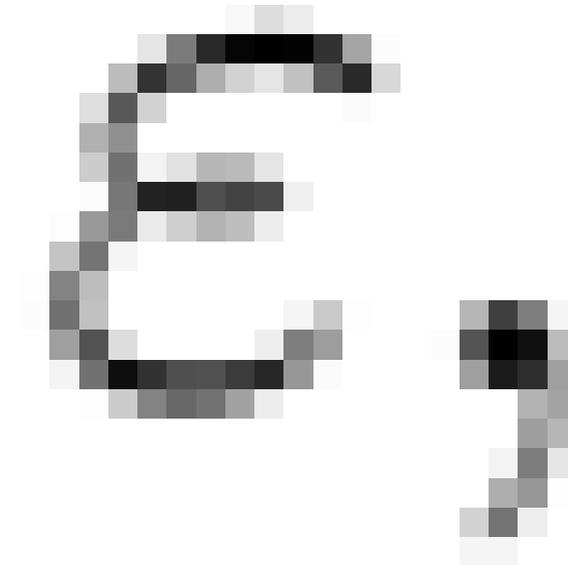
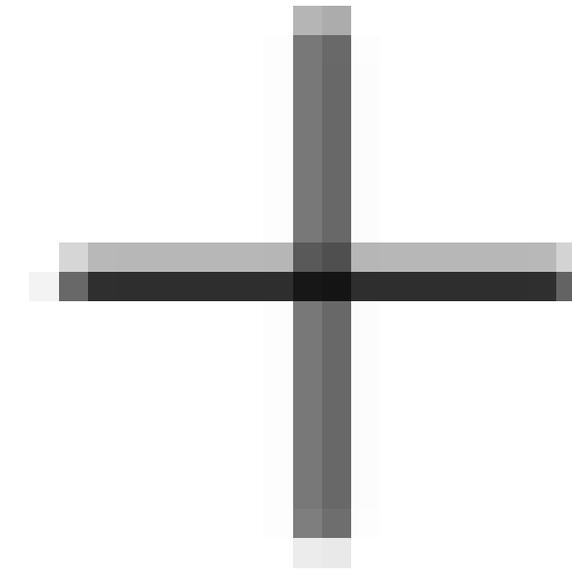
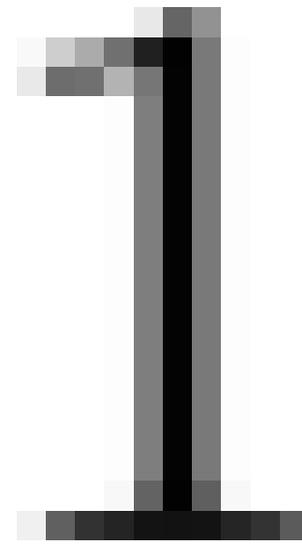
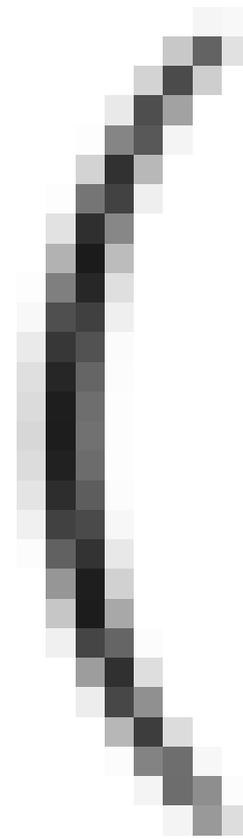
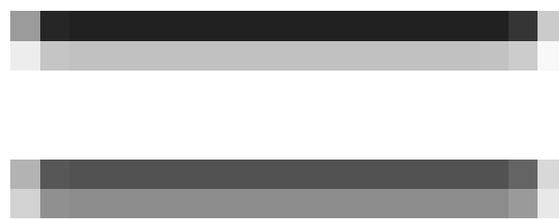
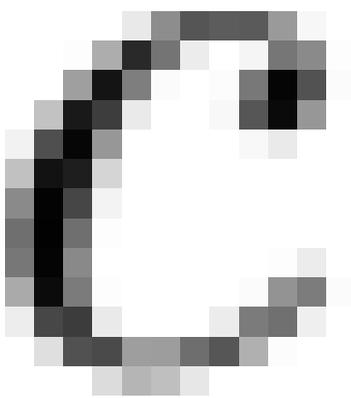
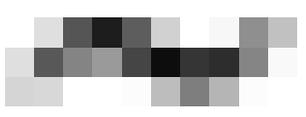
www.pearsoned.com









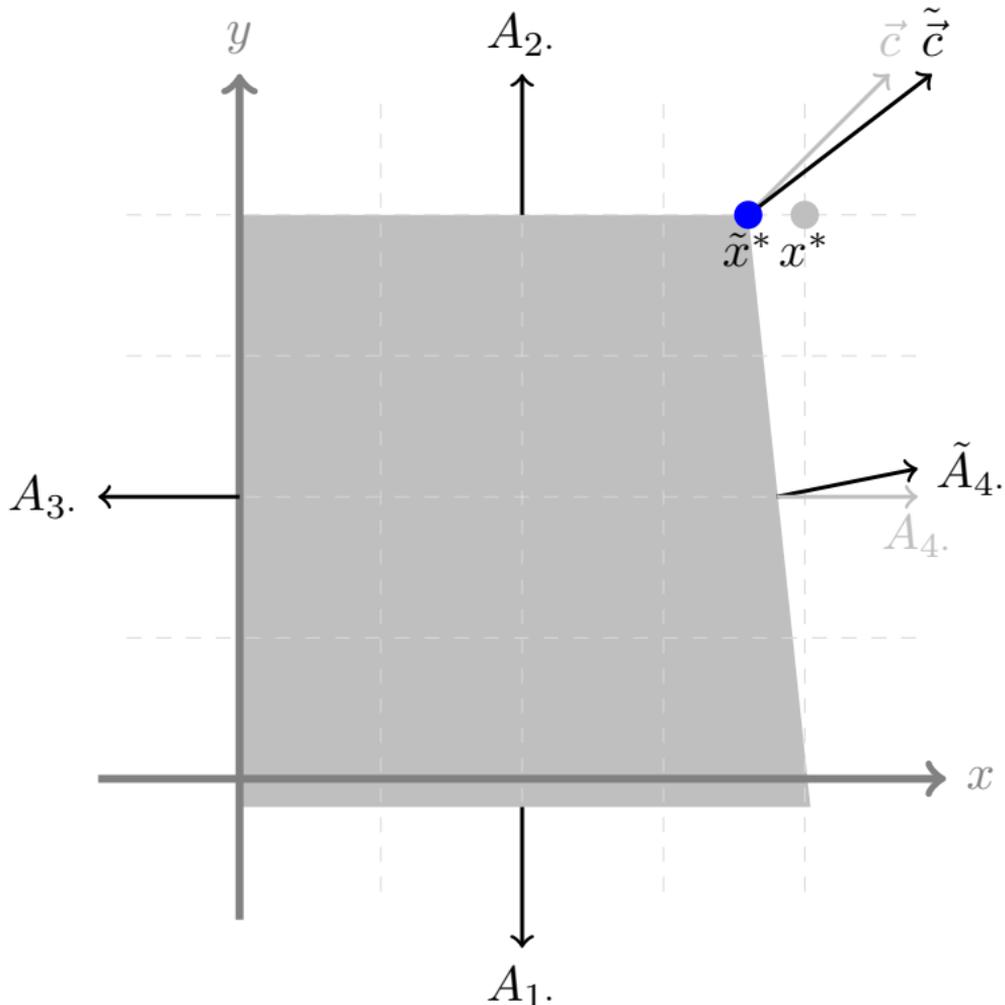


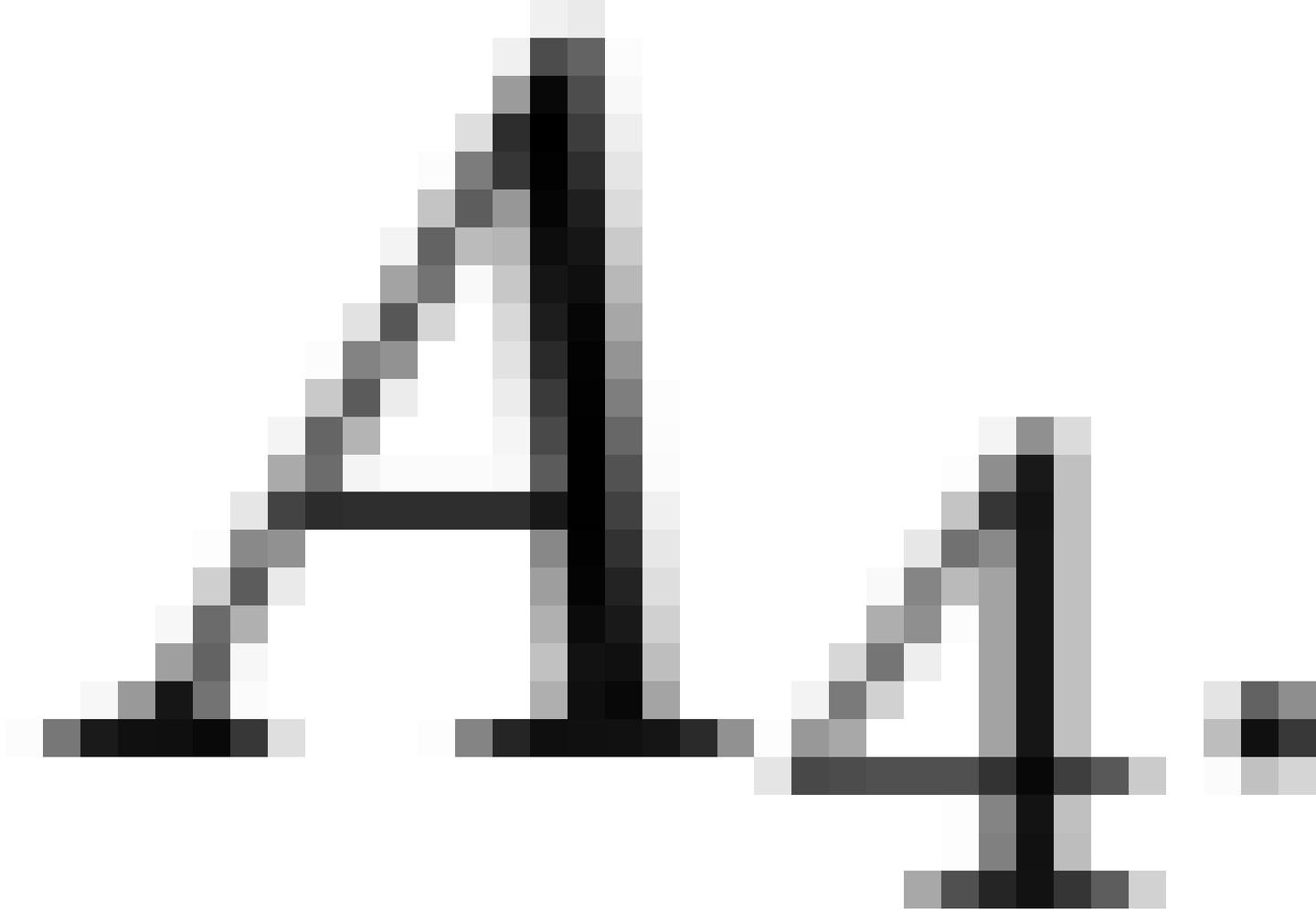
1.1

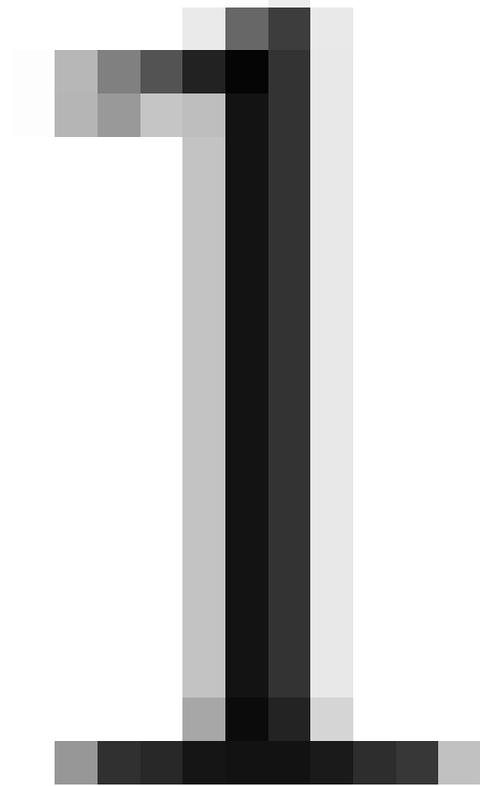
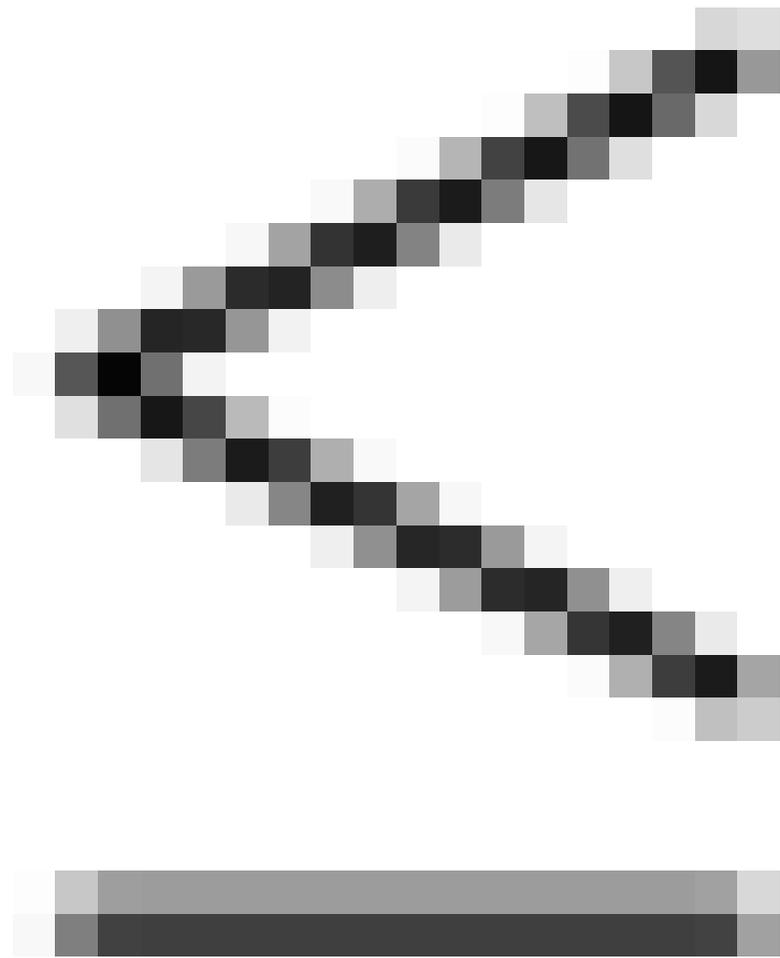
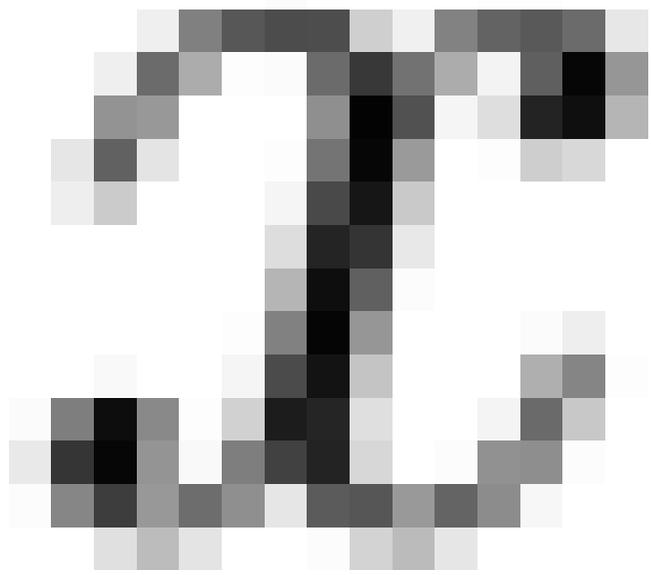
1.1

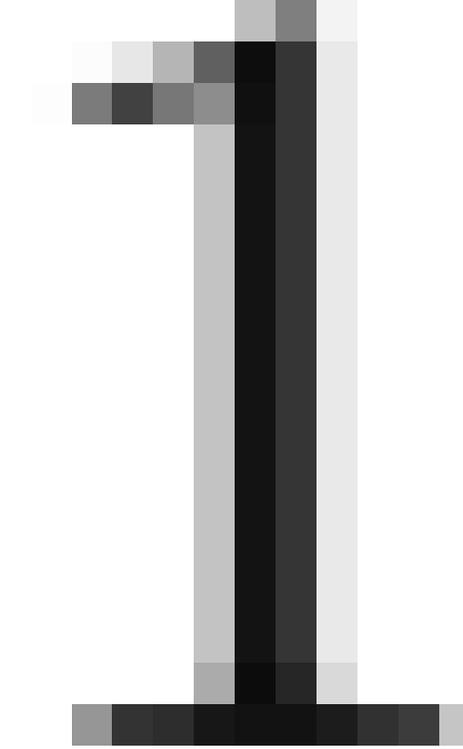
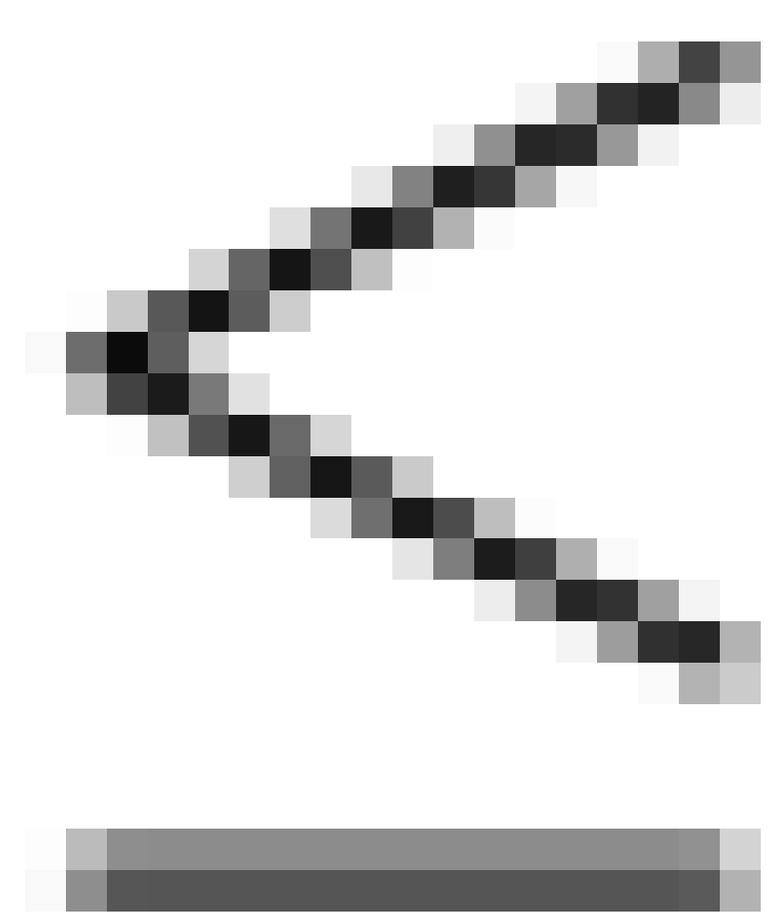
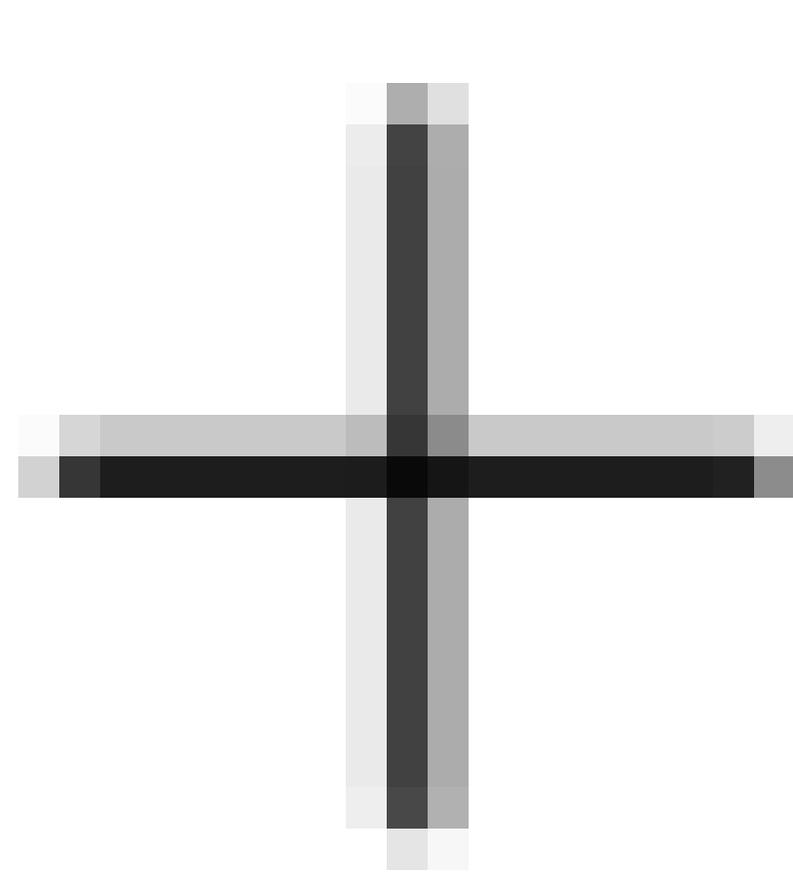
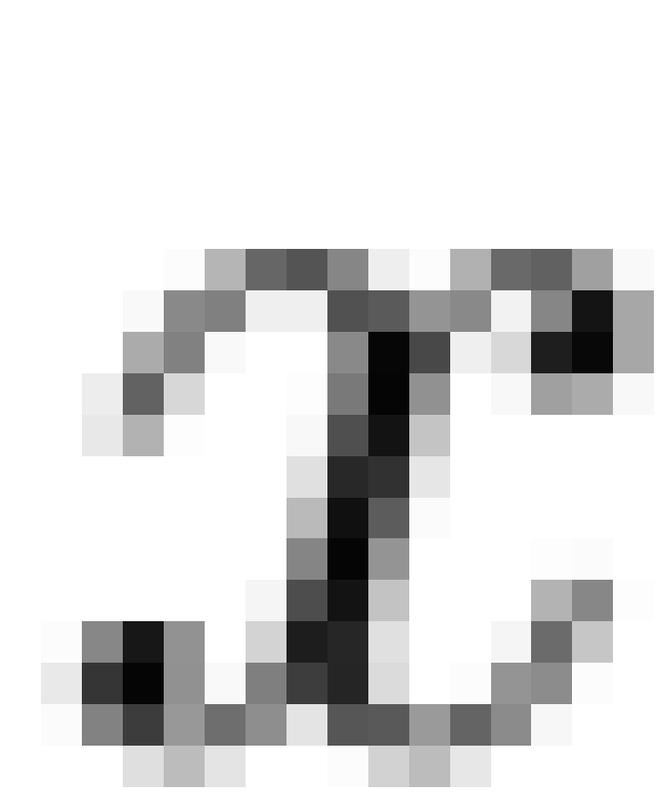
1.1

1.1



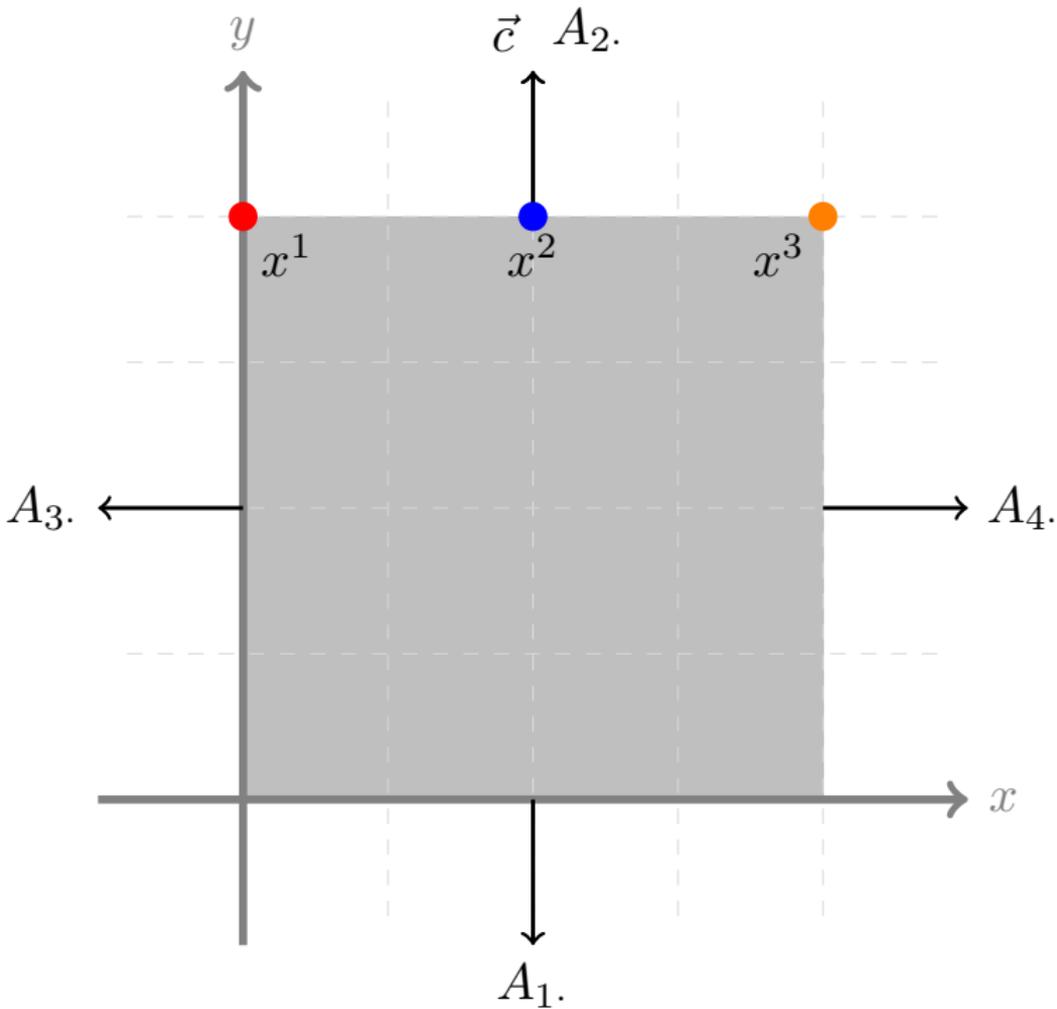


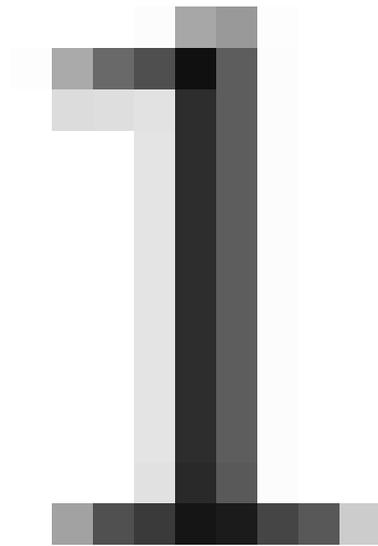
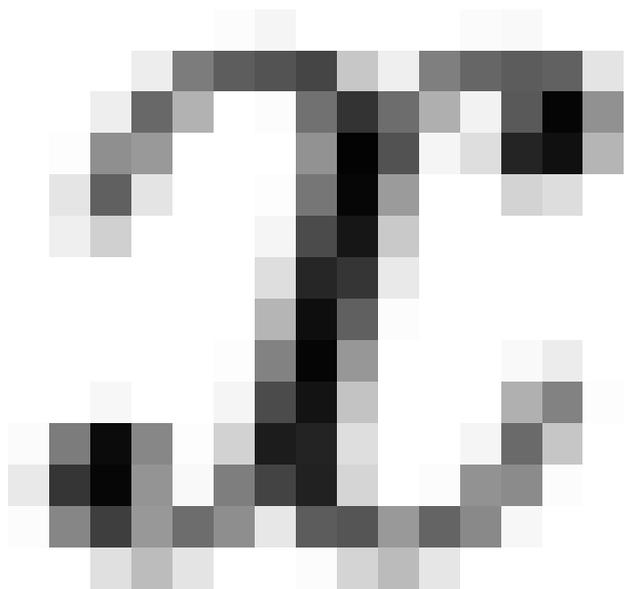




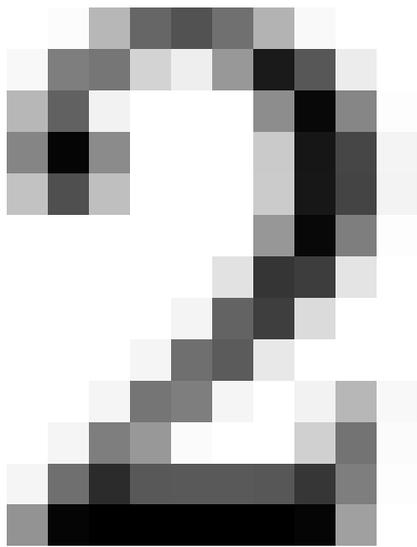
100x
+
100x

$$\begin{array}{llll}
 \max & & y & \vec{c} = (0, 1) \\
 s.t. & -x \leq 0 & A_1. = & (-1, 0) \\
 & x \leq 1 & A_2. = & (1, 0) \\
 & -y \leq 0 & A_3. = & (0, -1) \\
 & y \leq 1 & A_4. = & (0, 1).
 \end{array}$$

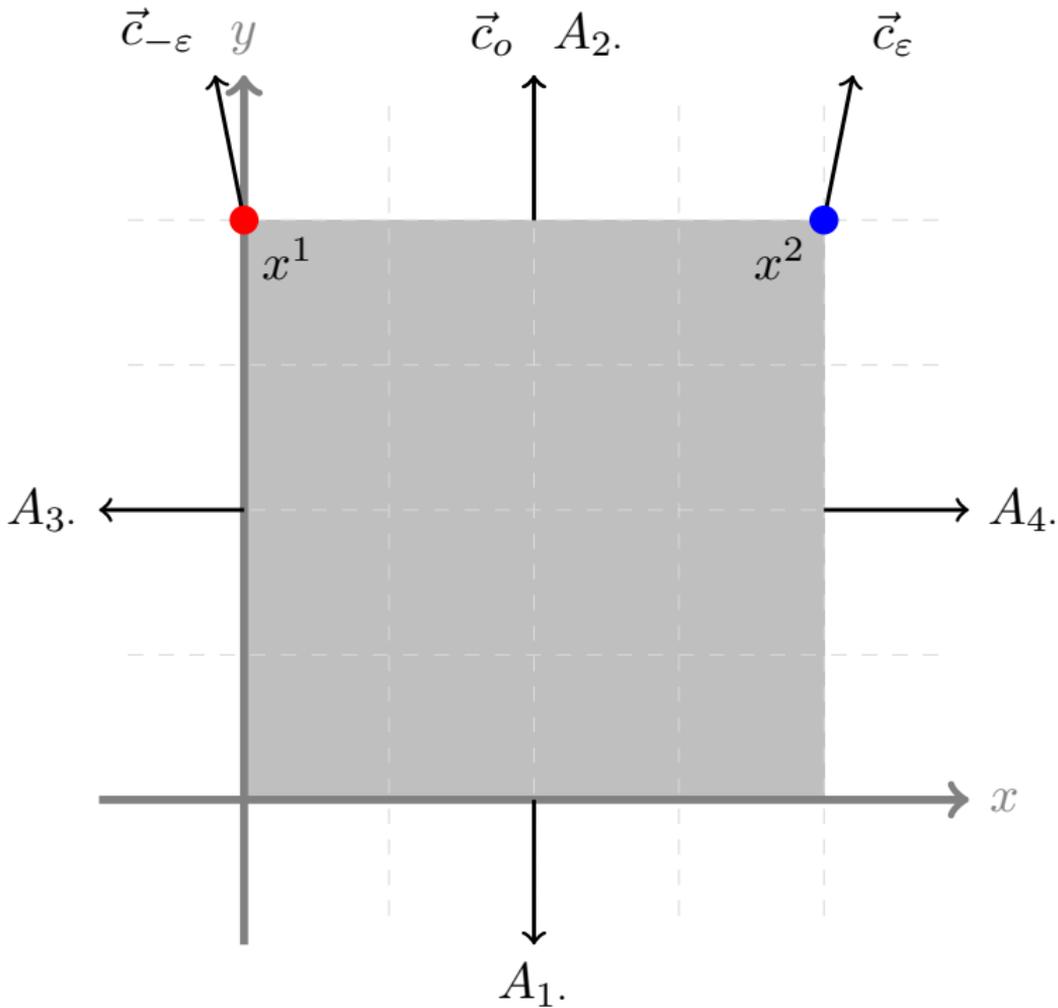


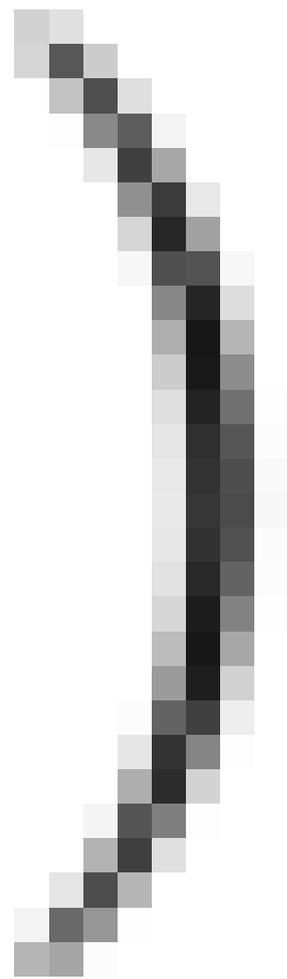
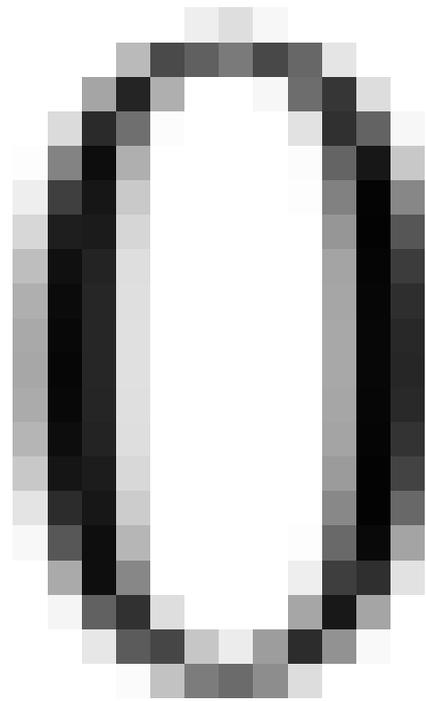
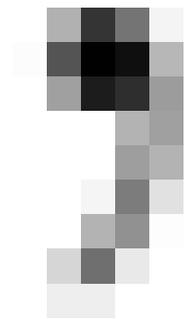
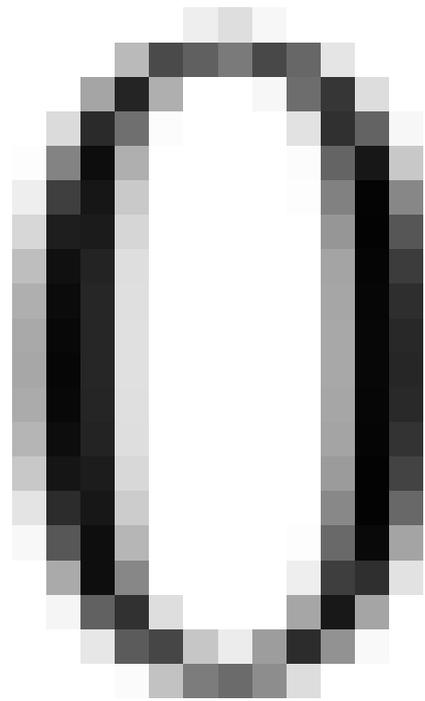
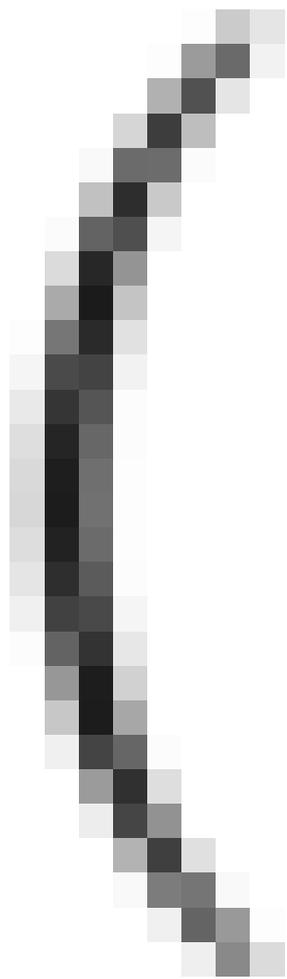


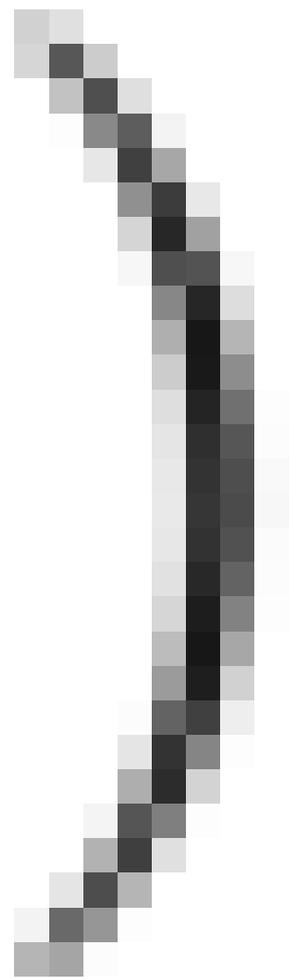
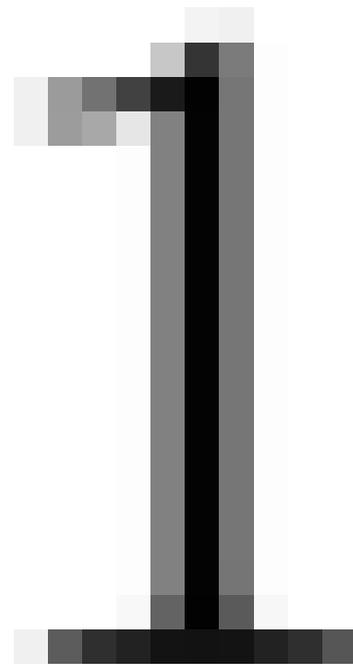
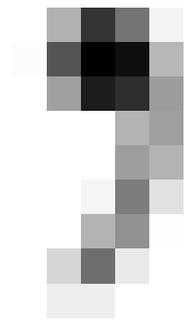
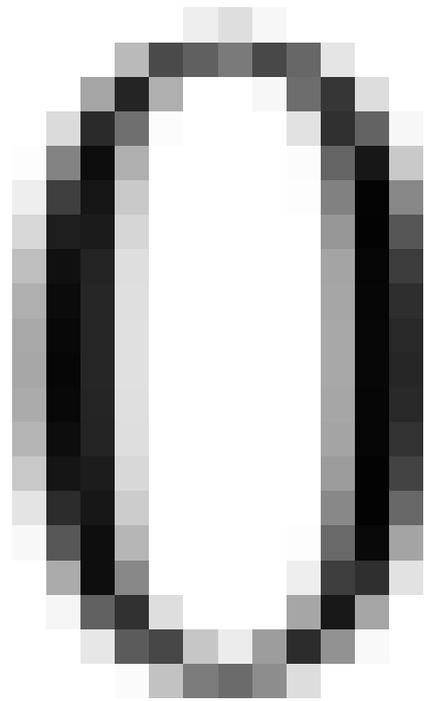




$$\begin{array}{llll}
\max & \varepsilon x + y & \vec{c} = & (\varepsilon, 1) \\
s.t. & -x \leq 0 & A_1. = & (-1, 0) \\
& x \leq 1 & A_2. = & (1, 0) \\
& -y \leq 0 & A_3. = & (0, -1) \\
& y \leq 1 & A_4. = & (0, 1).
\end{array}$$

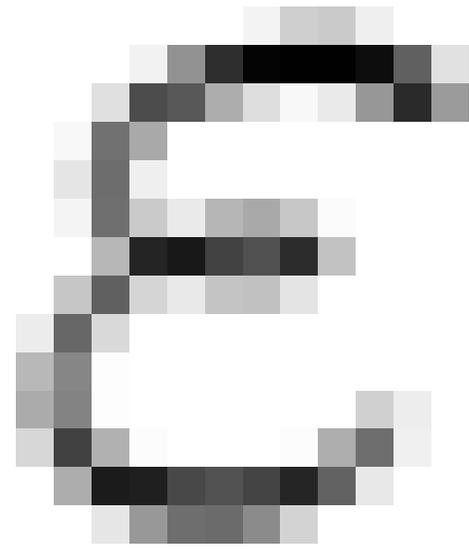
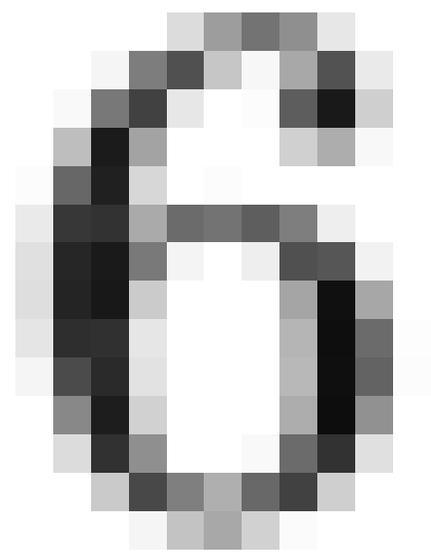
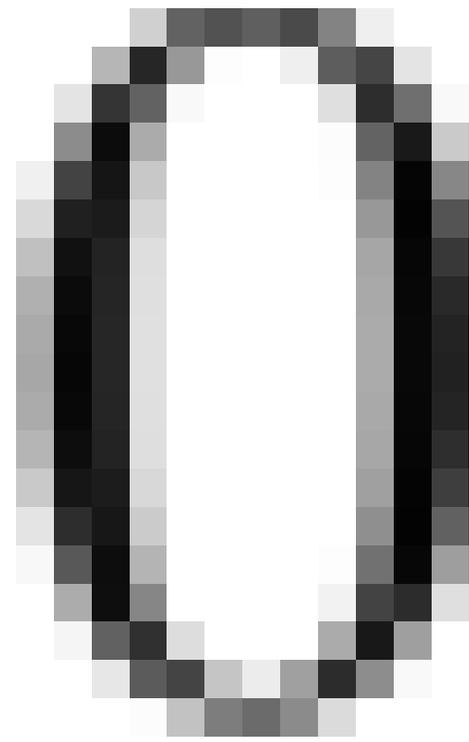
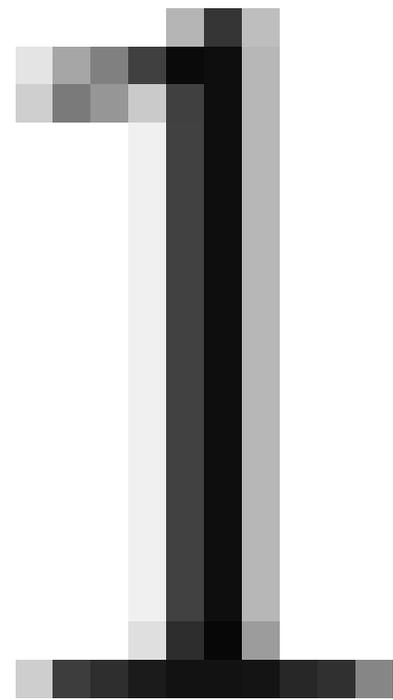
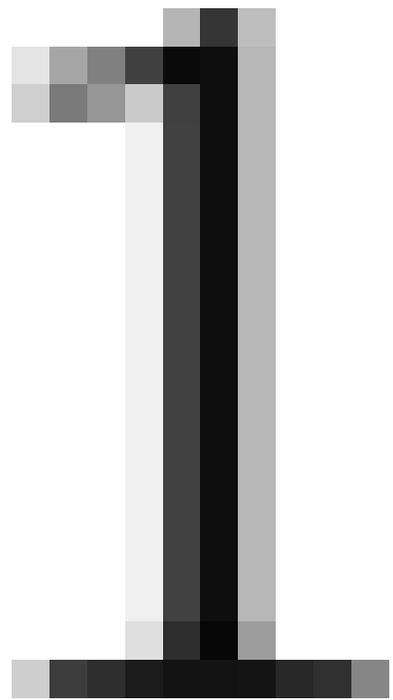




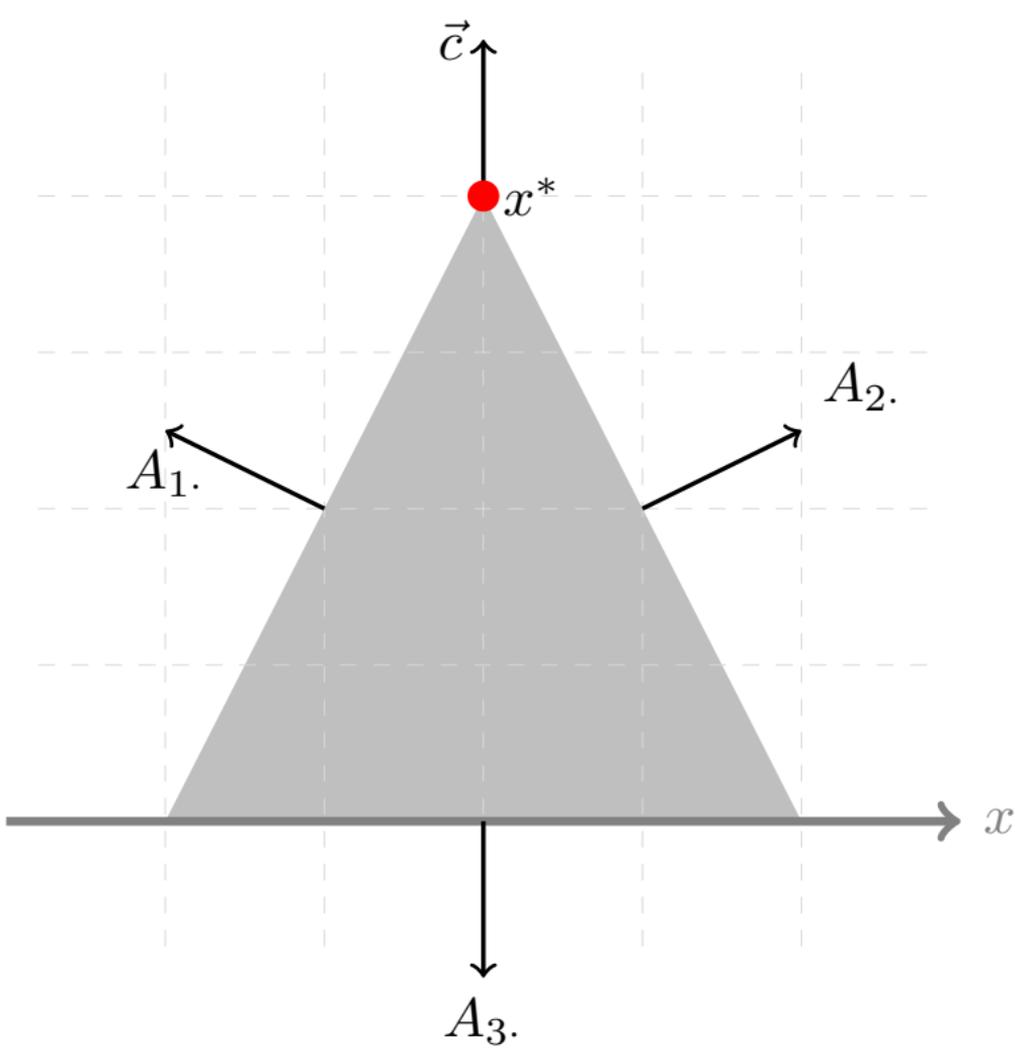


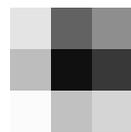
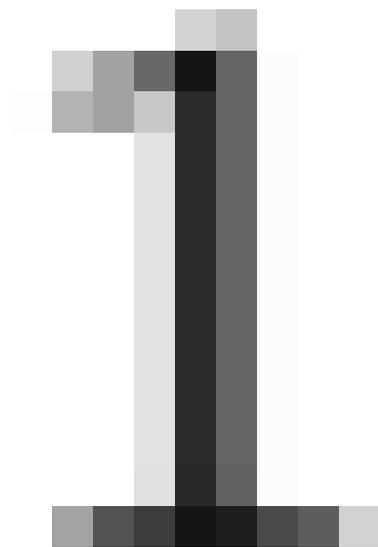
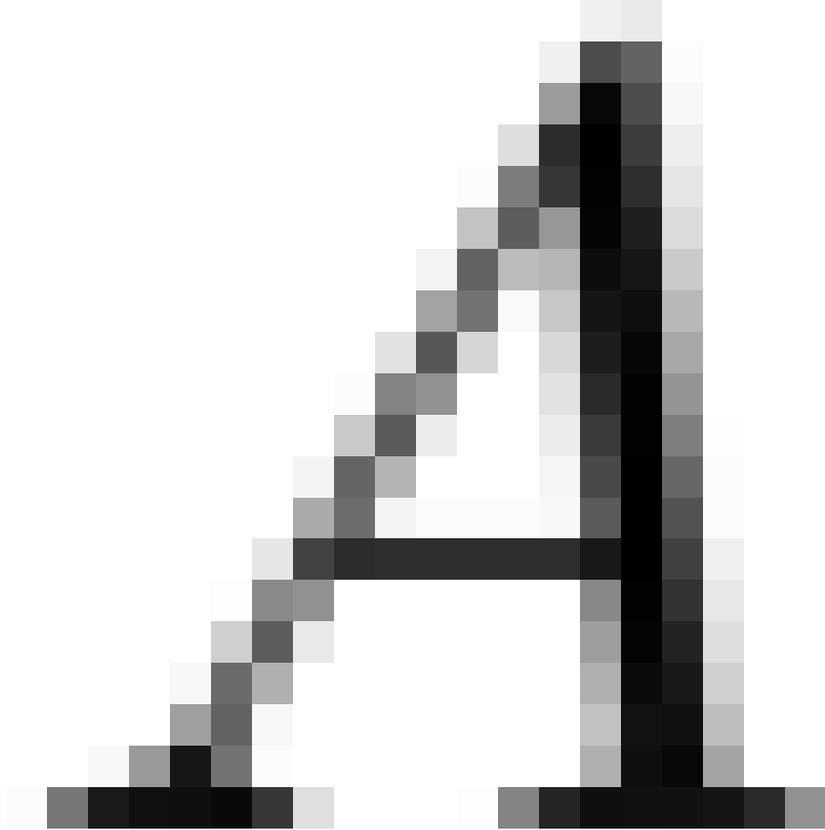
100% 100%

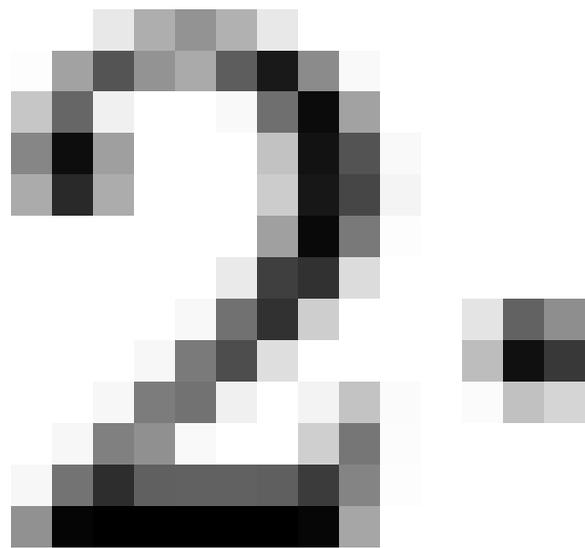
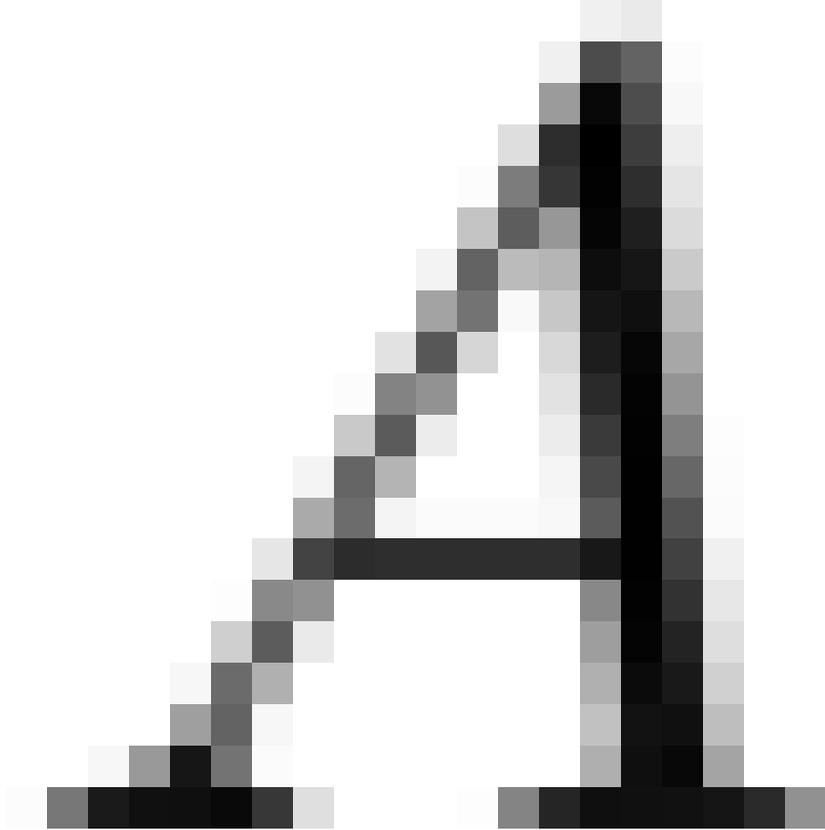
1006,000



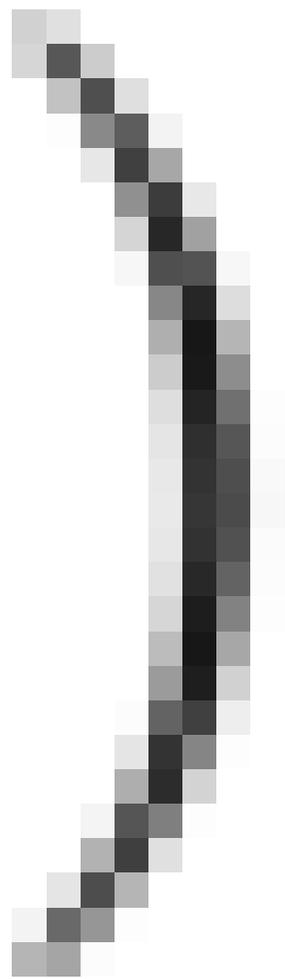
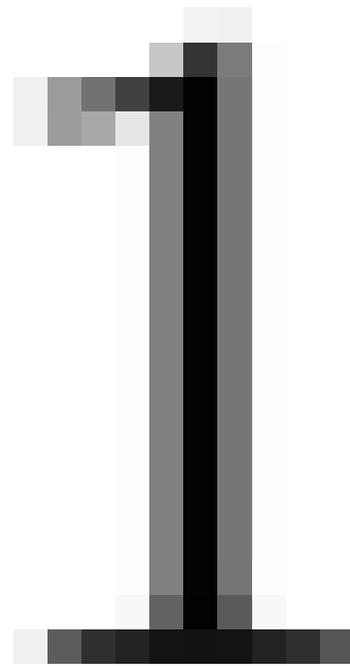
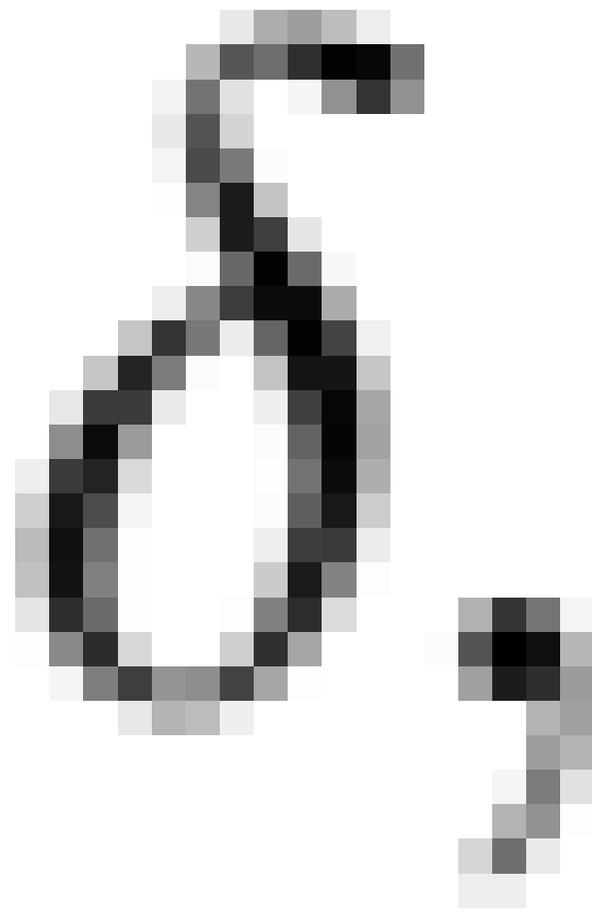
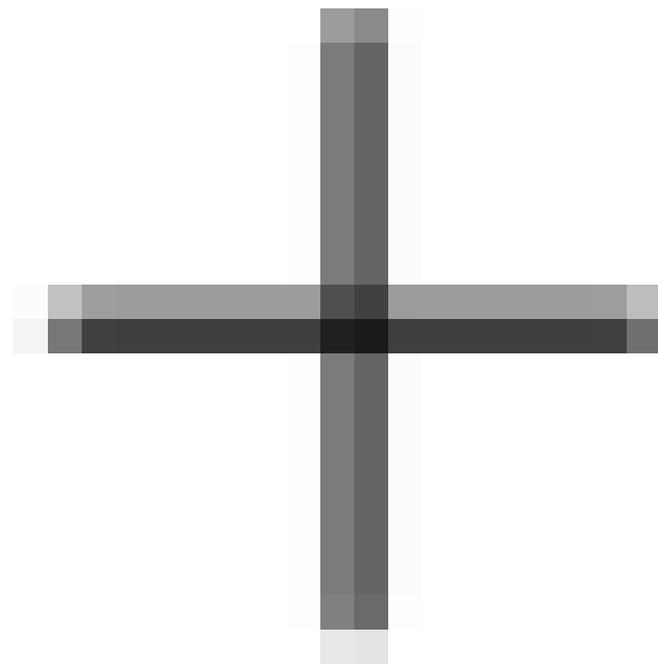
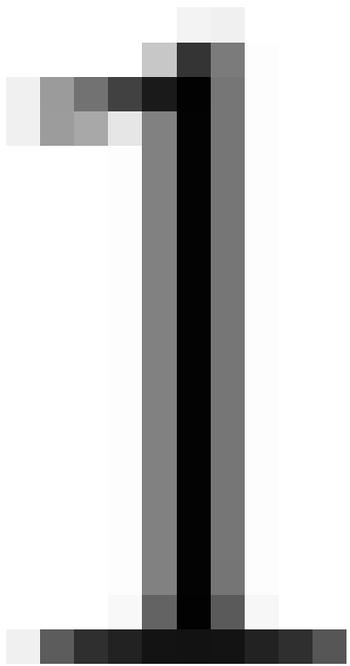
$$\begin{array}{ll}
\max & y \quad \bar{c}^T = (0, 1) \\
s.t. & -x + \varepsilon y \leq 1 \quad A_1. = (-1, \varepsilon) \\
& x + \varepsilon y \leq 1 \quad A_2. = (1, \varepsilon) \\
& -y \leq 0 \quad A_3. = (0, -1)
\end{array}$$

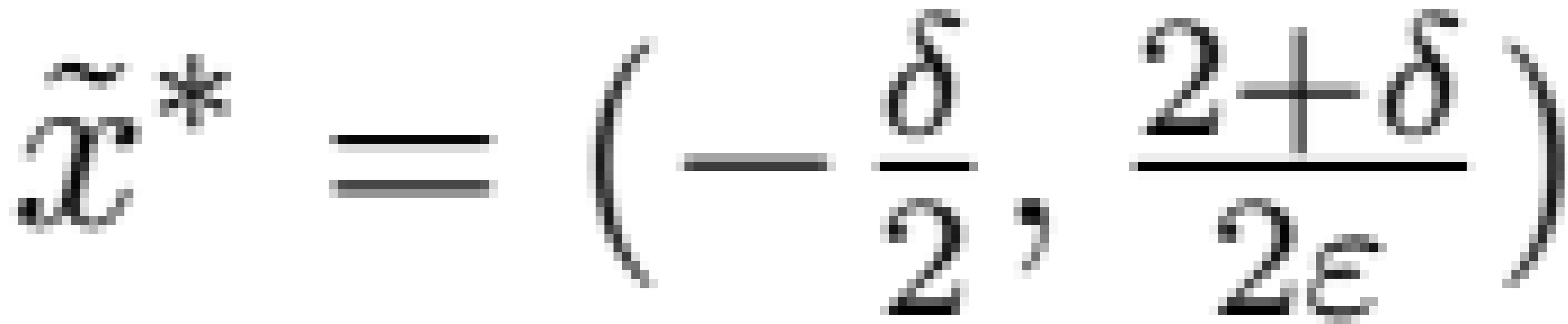


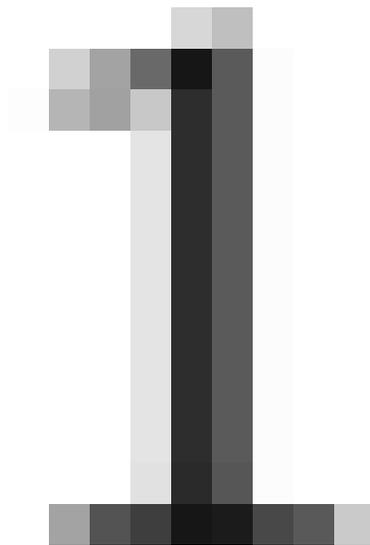
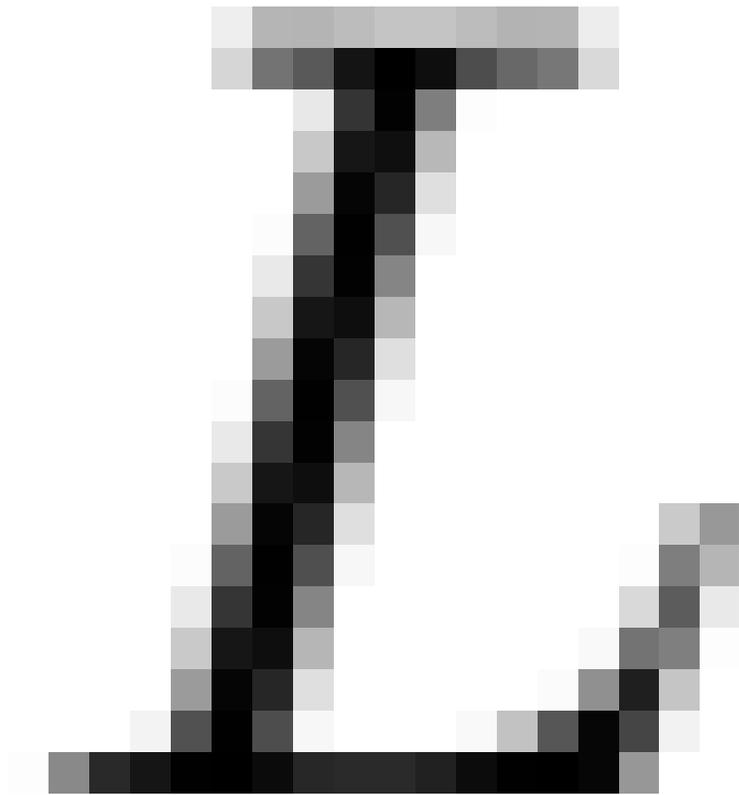


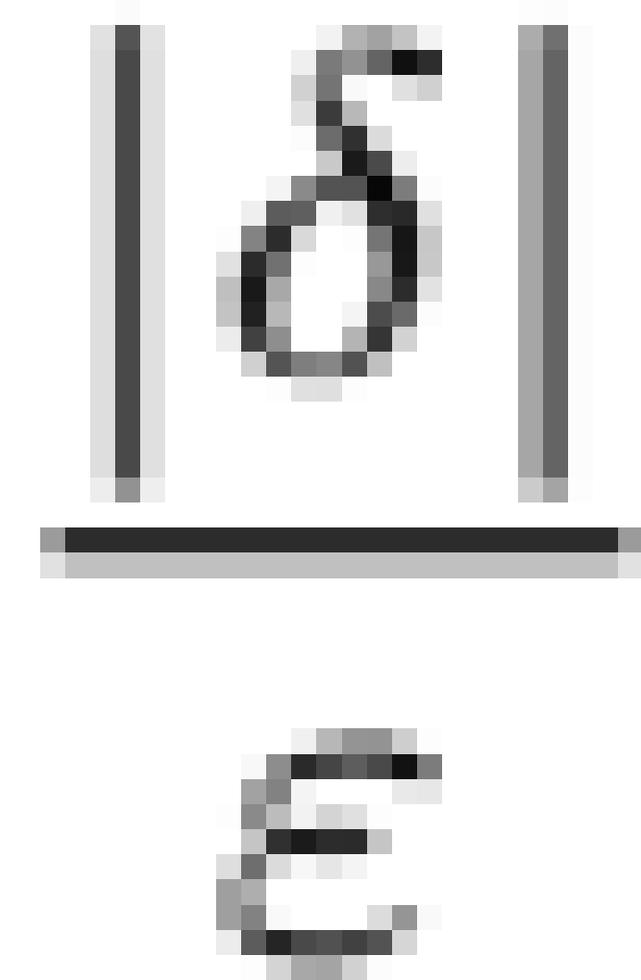
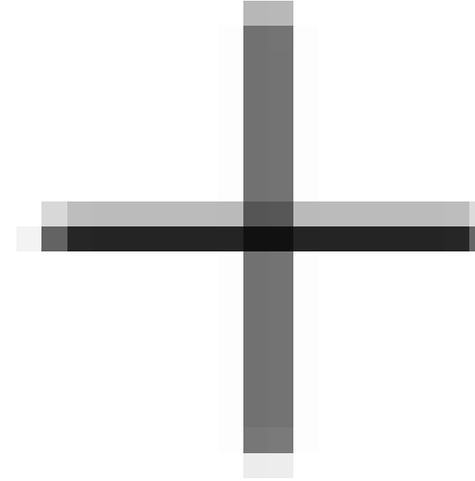
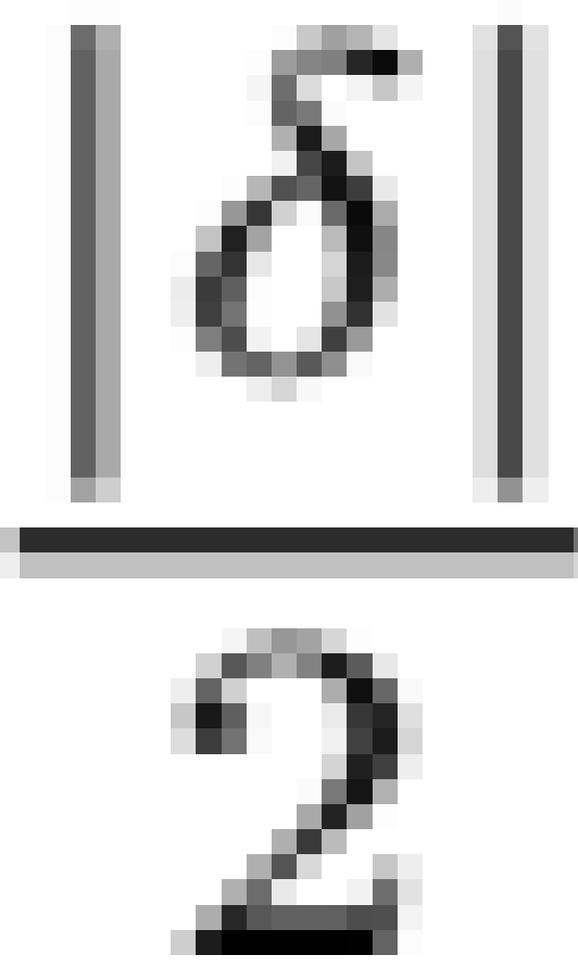
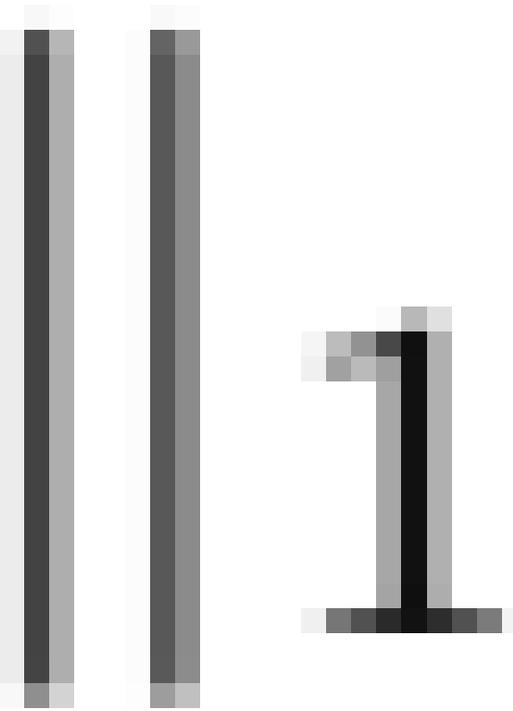
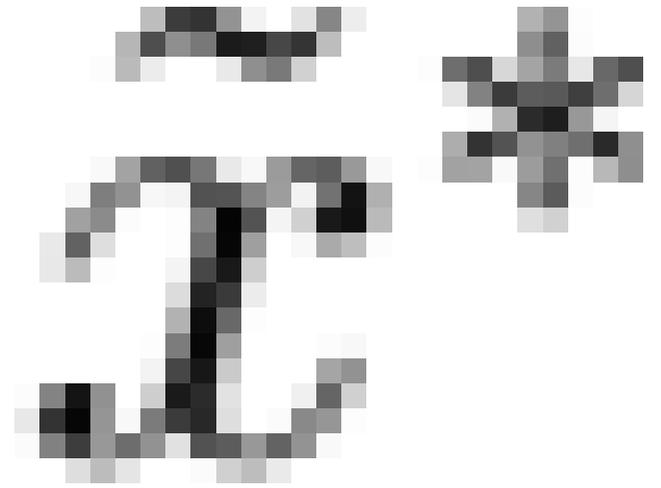


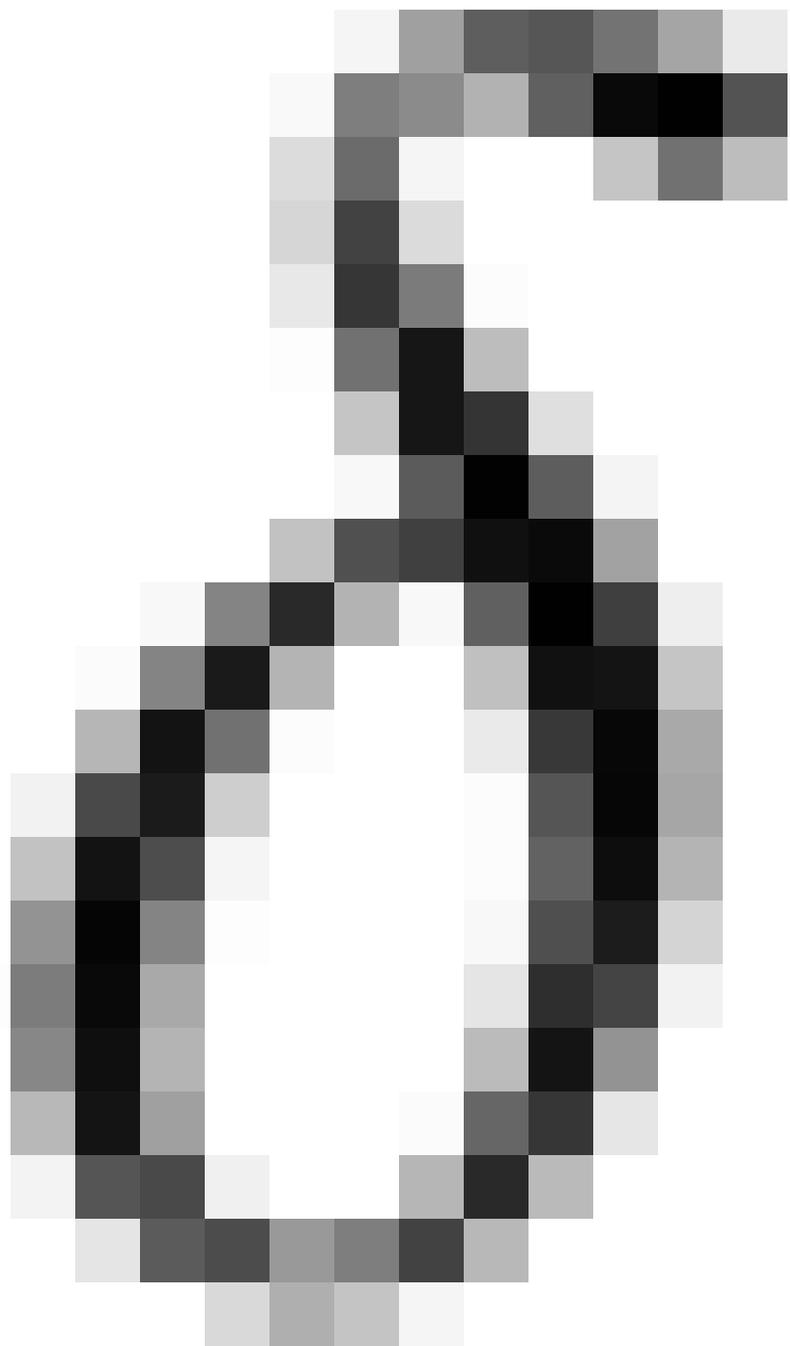
100,000

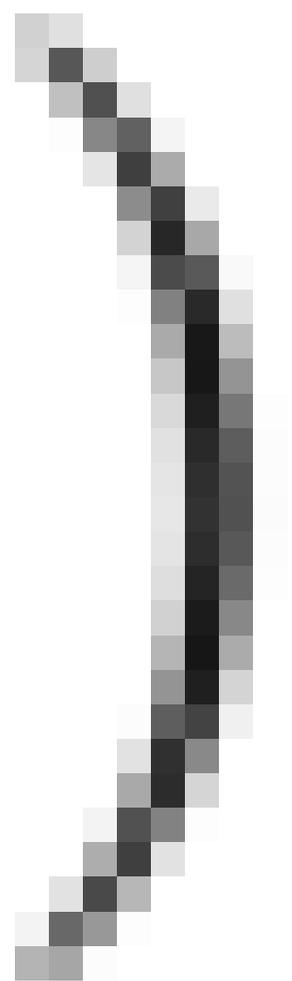
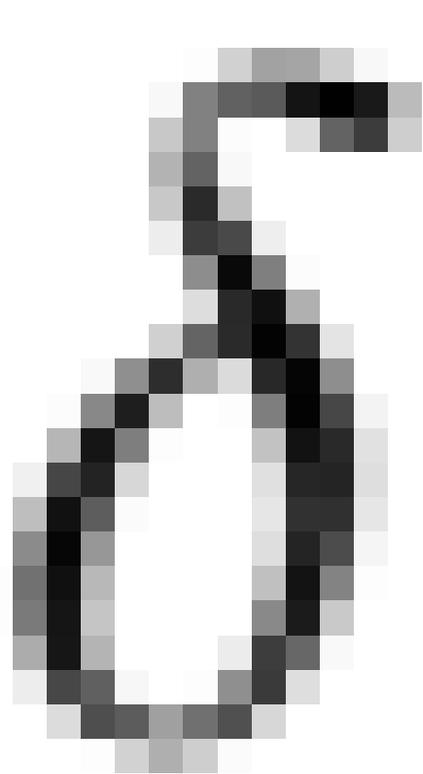
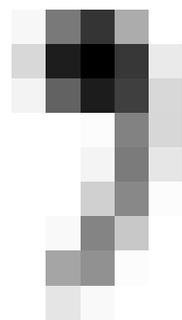
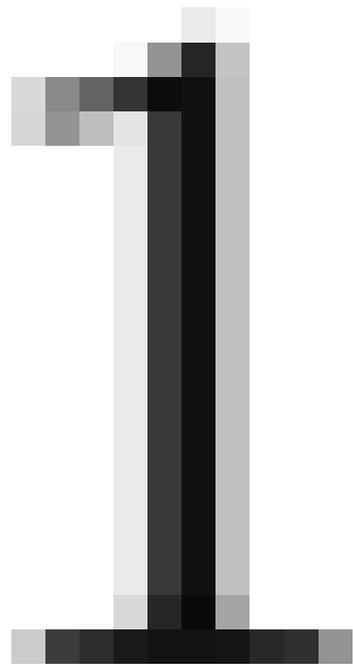
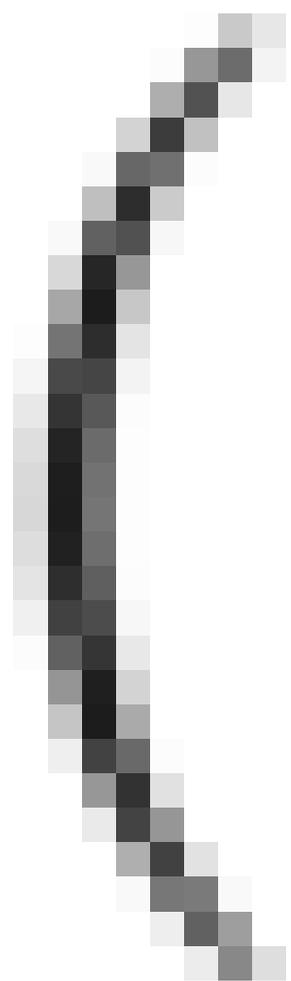


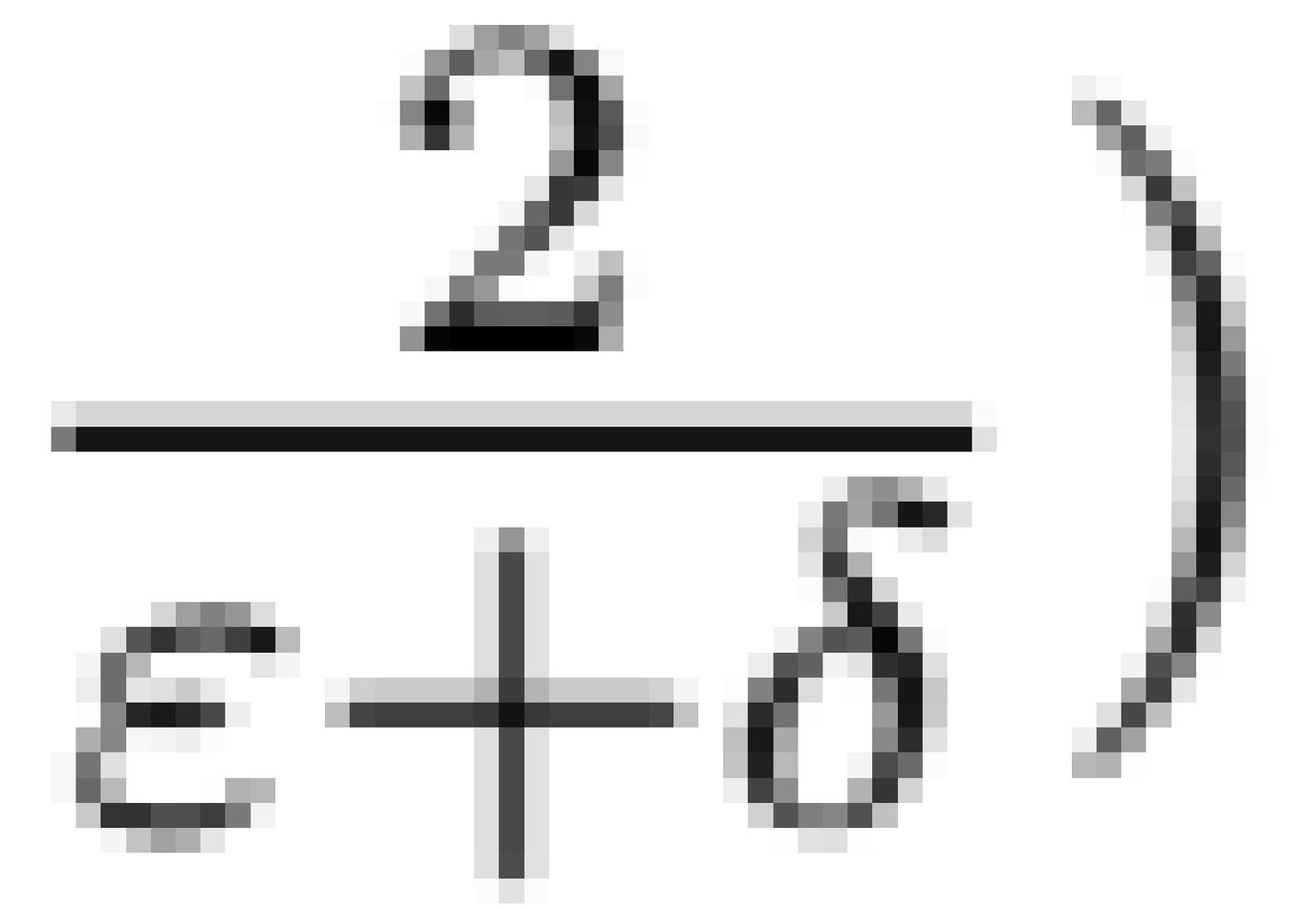
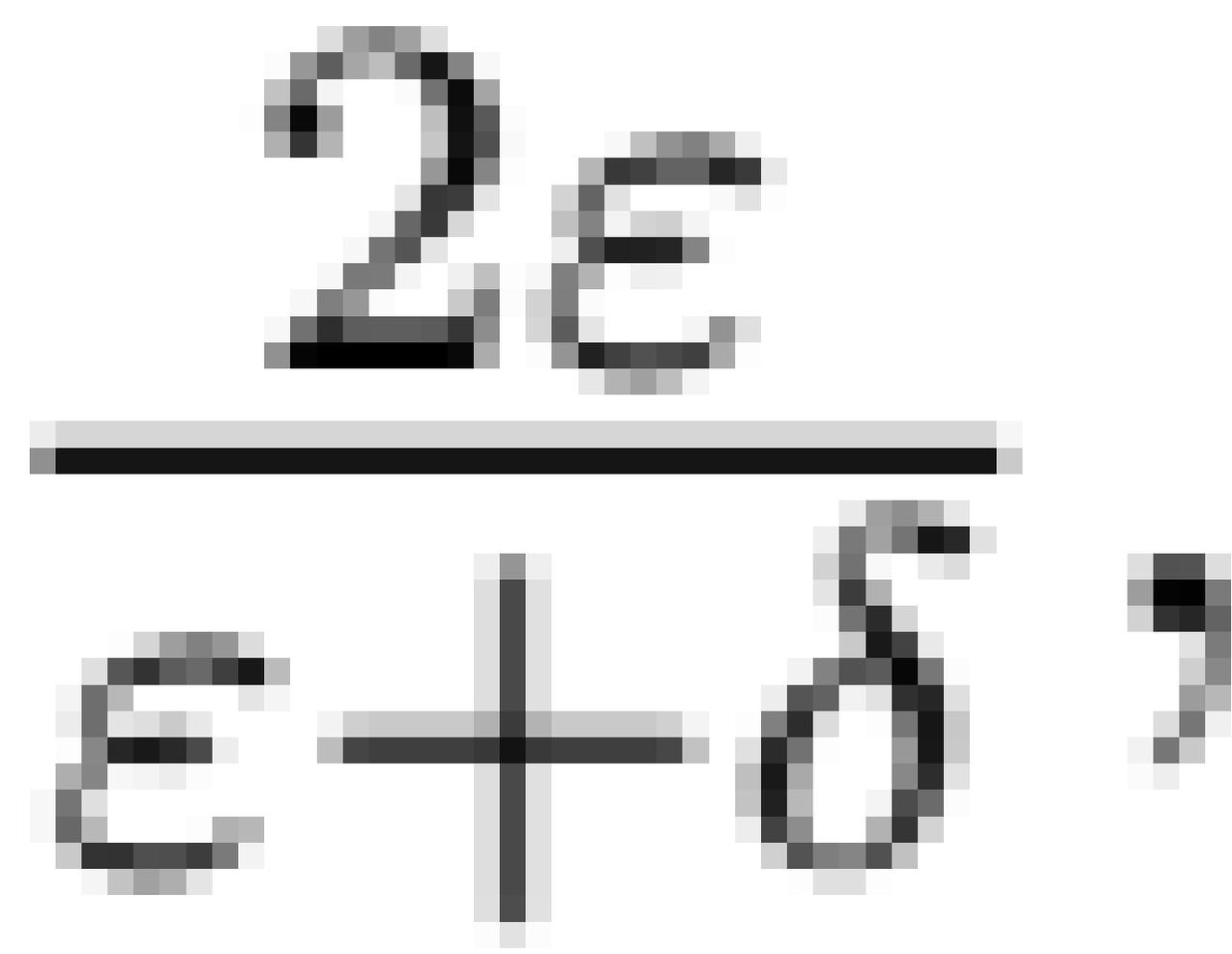
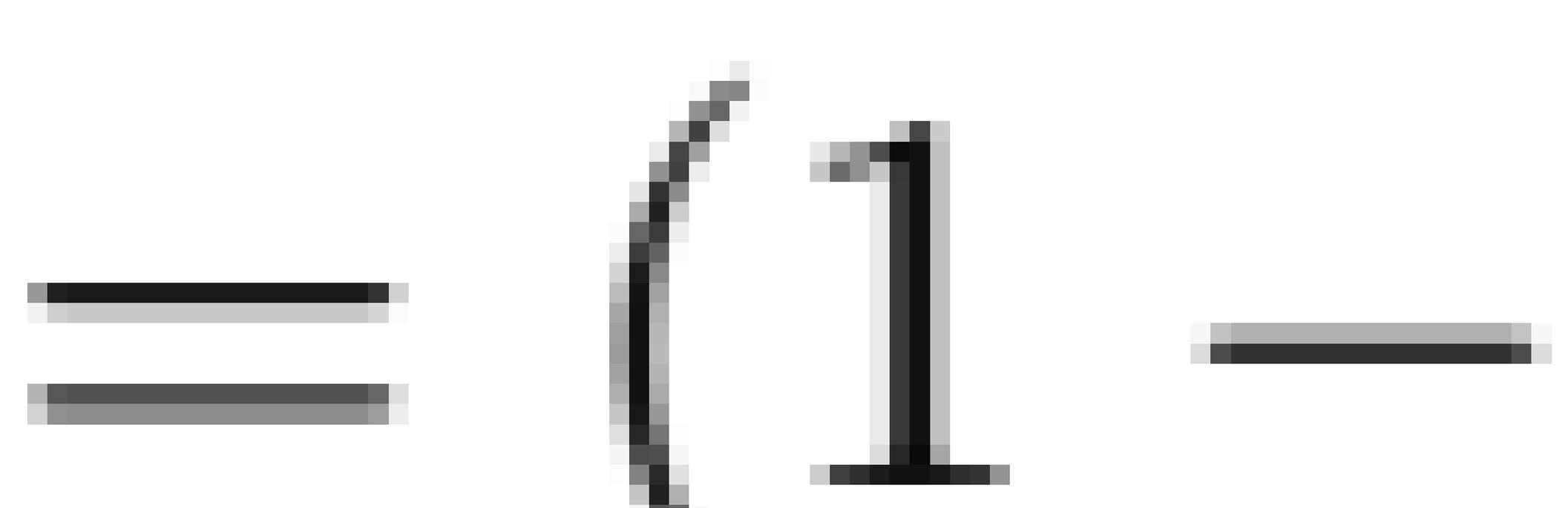
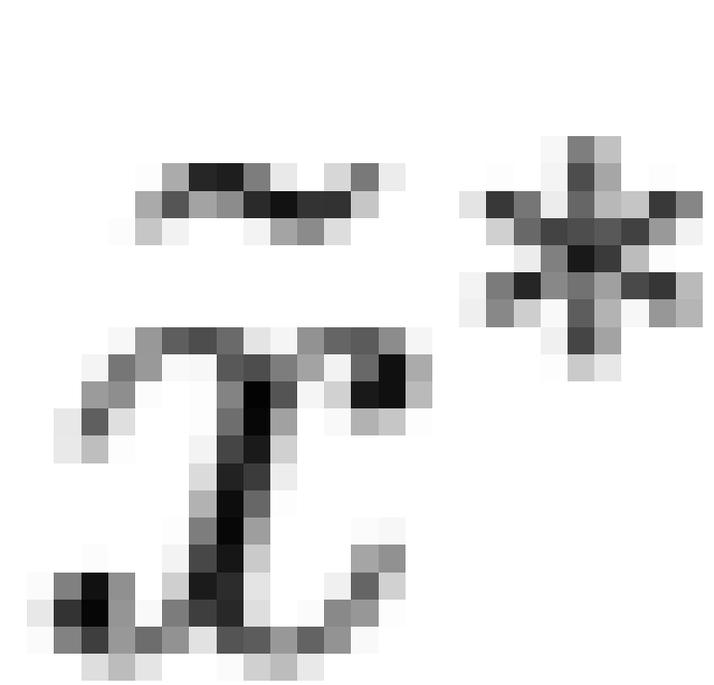


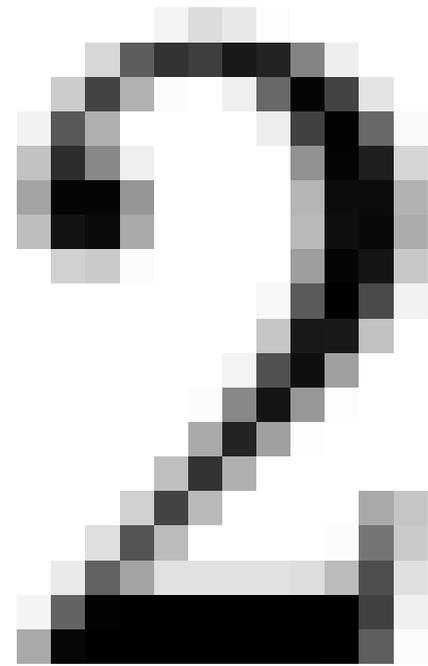
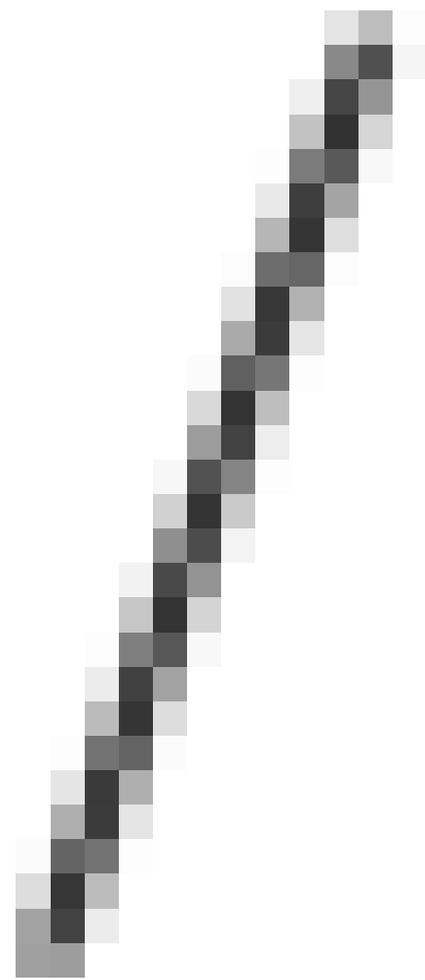
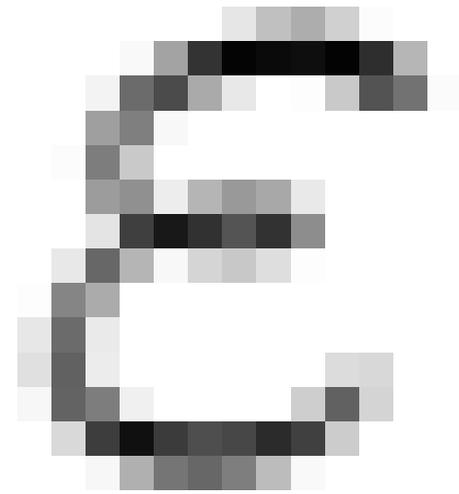
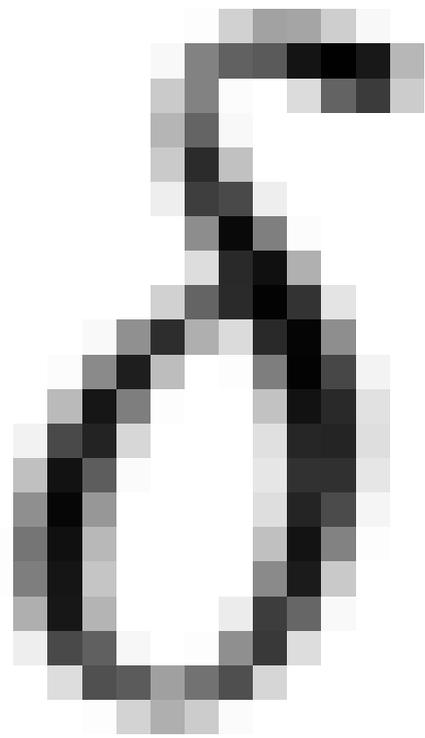


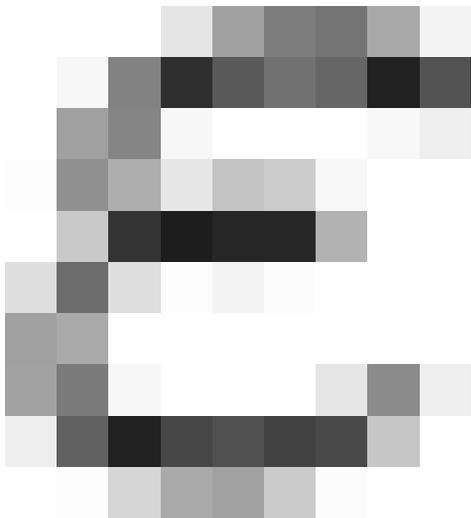
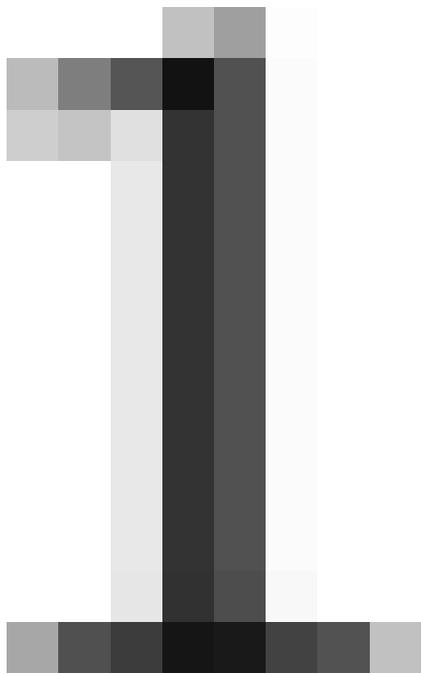


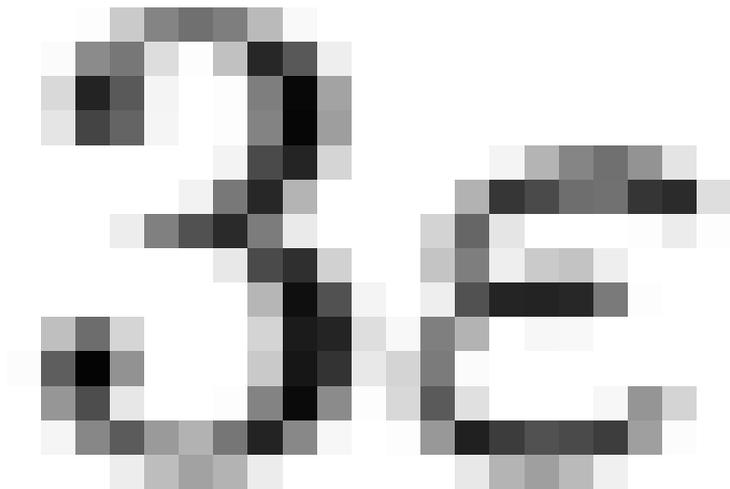
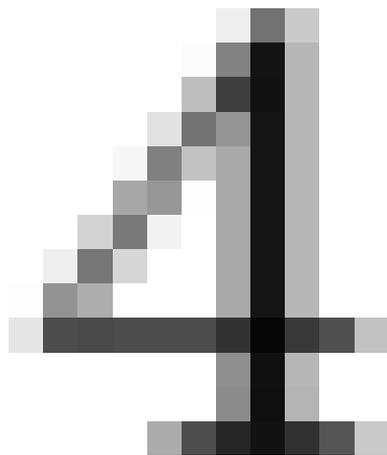


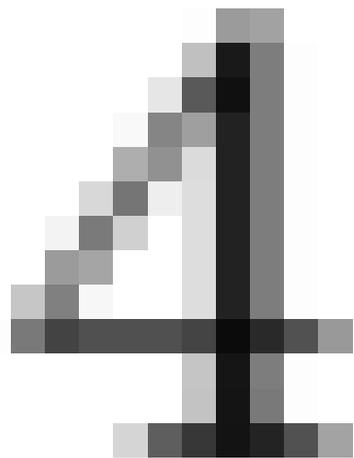
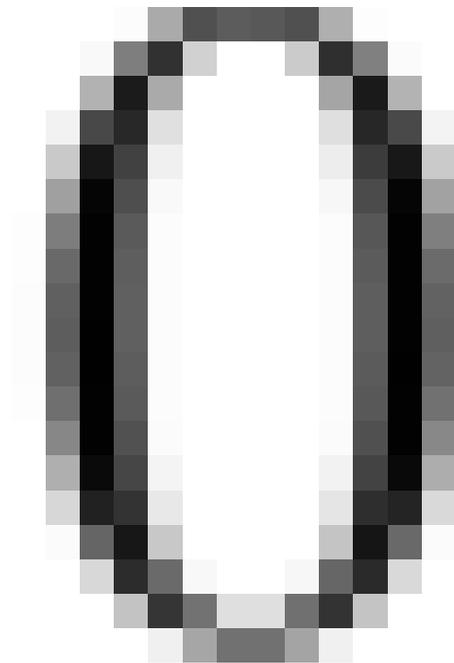
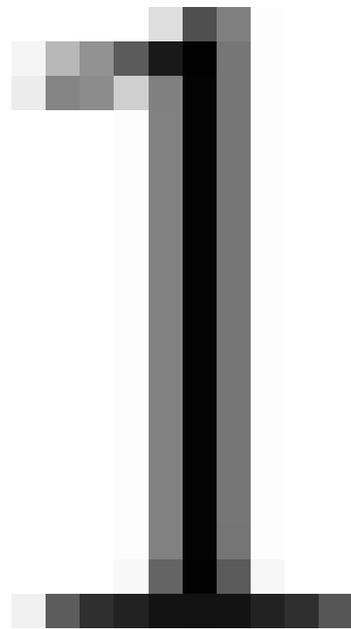
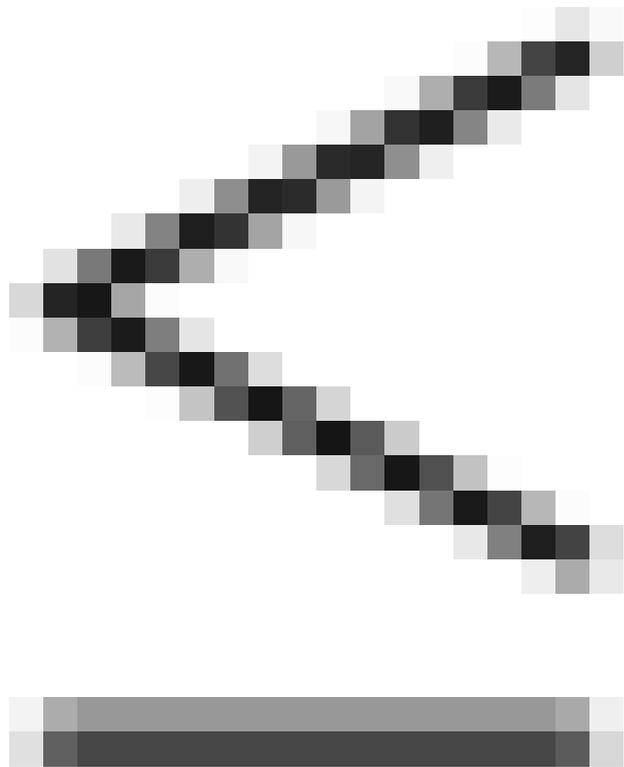
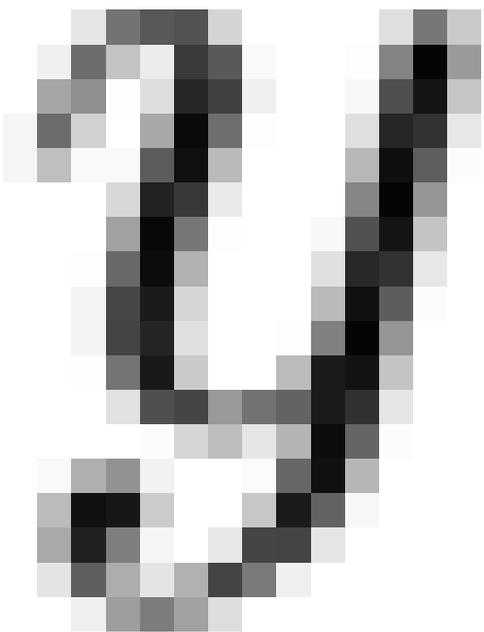


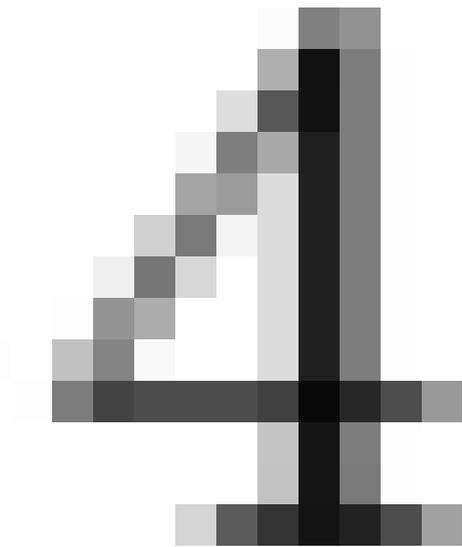
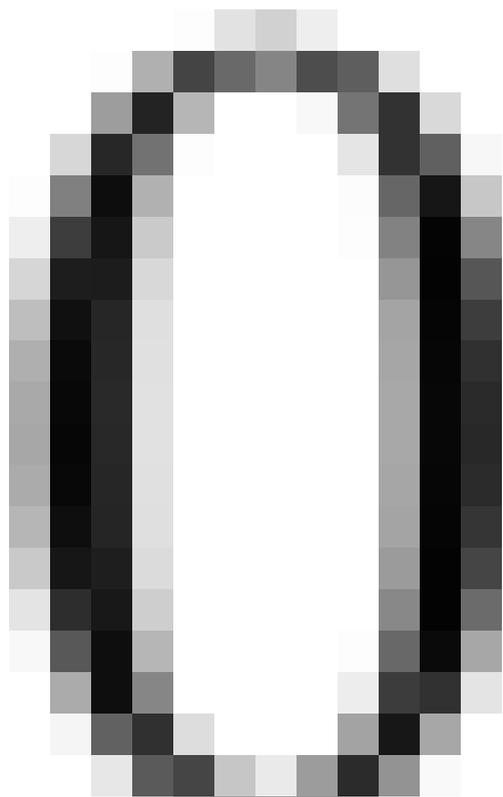
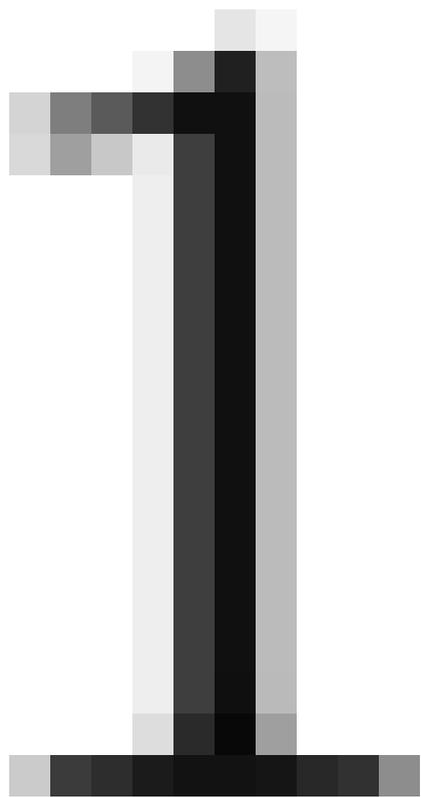




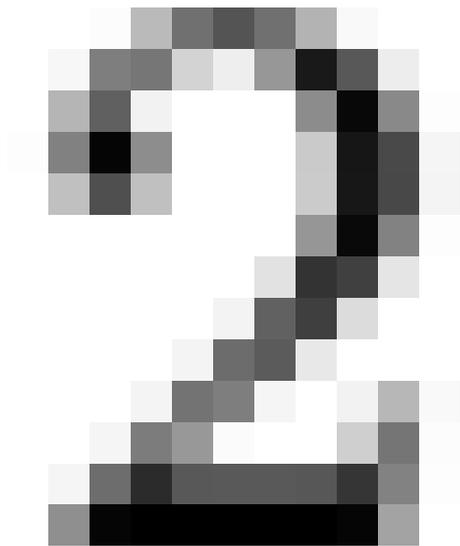
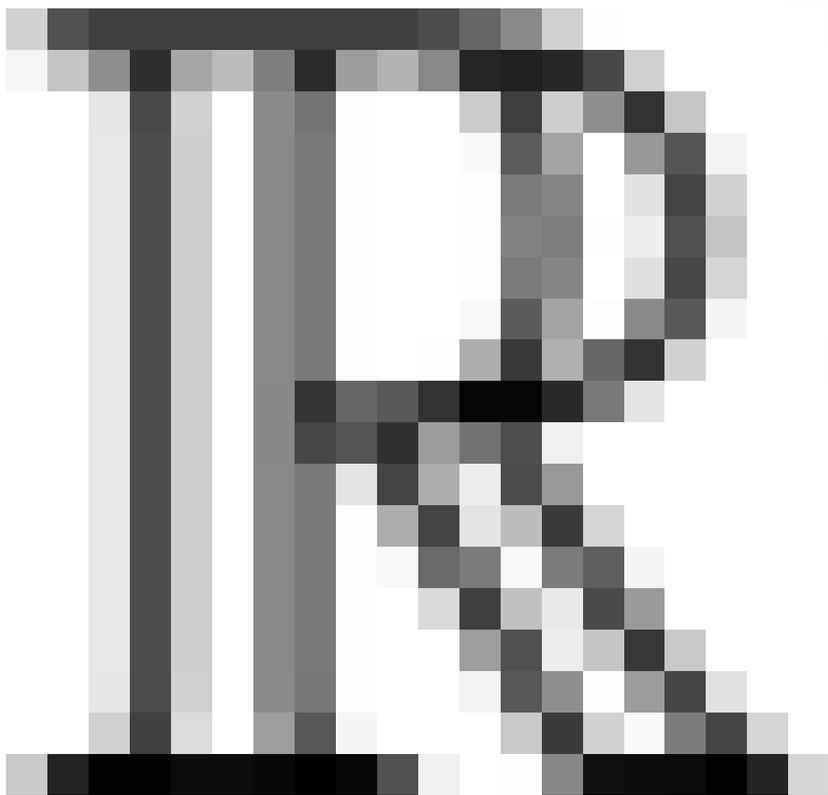


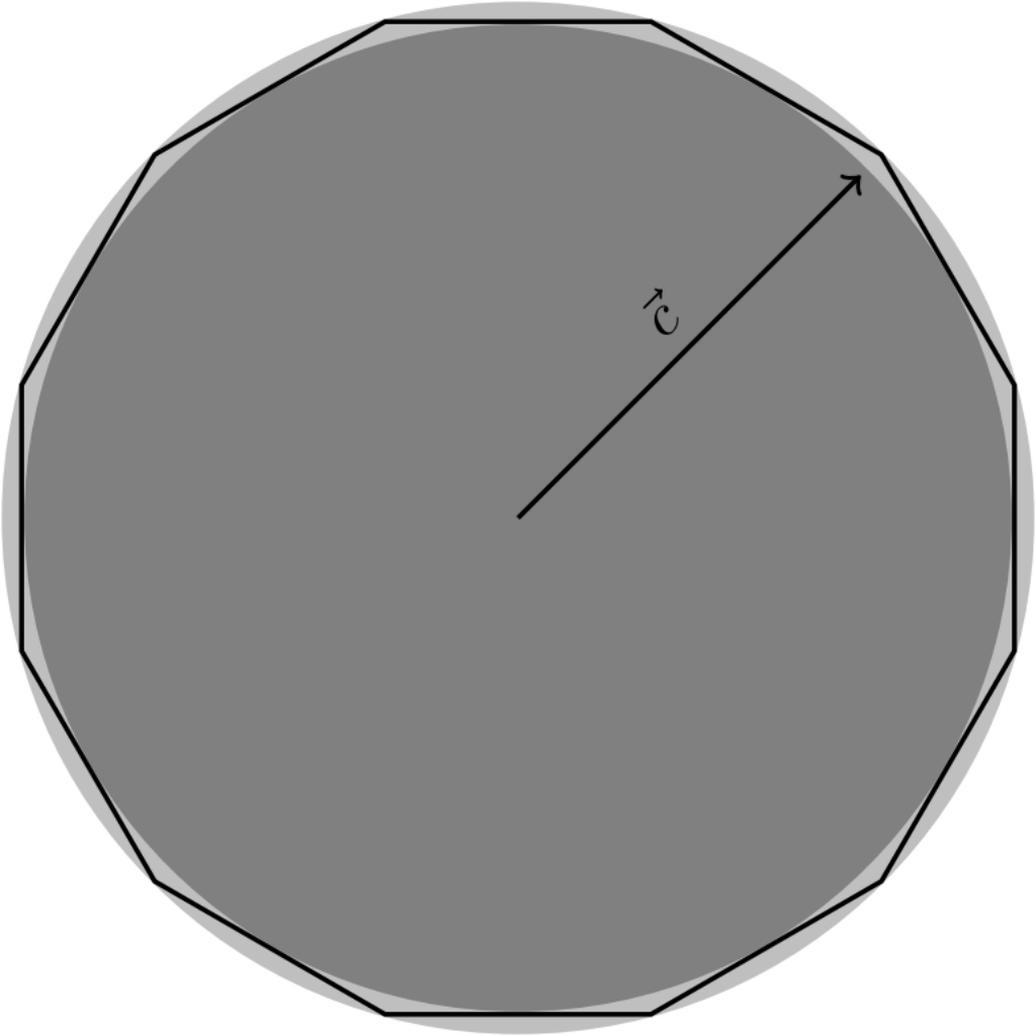


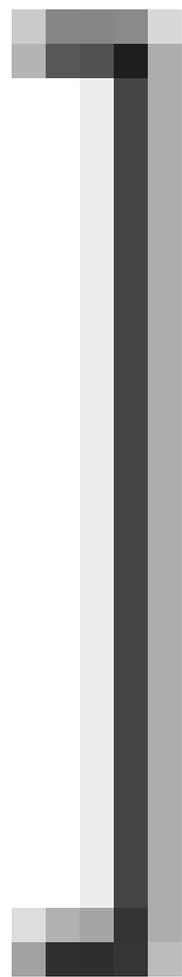
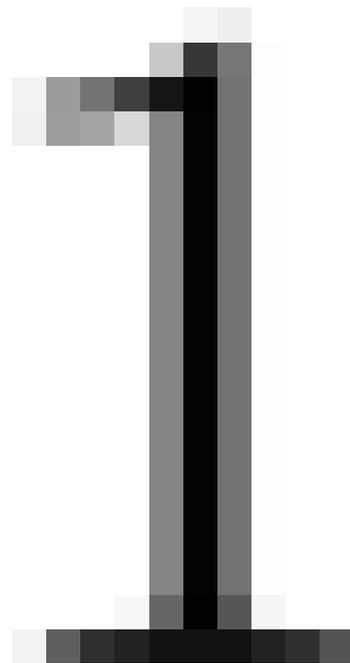
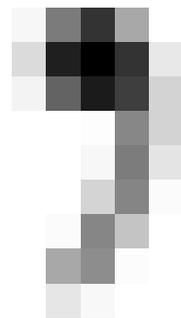
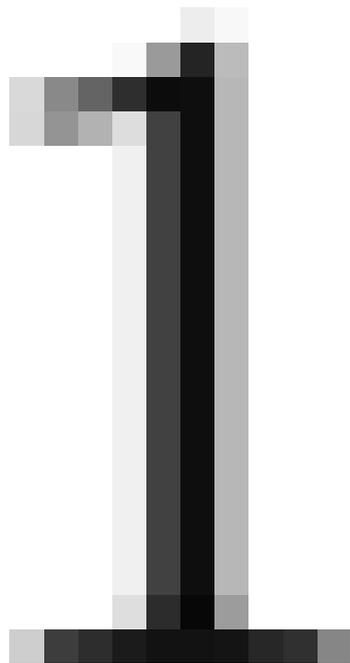
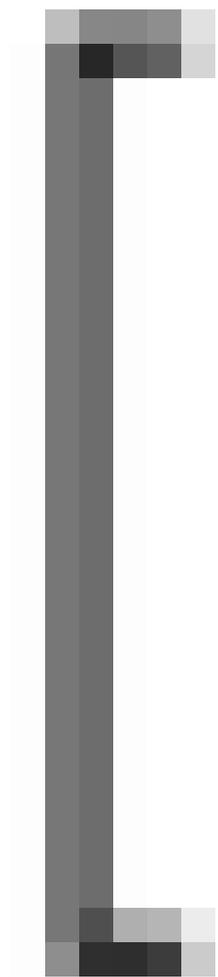


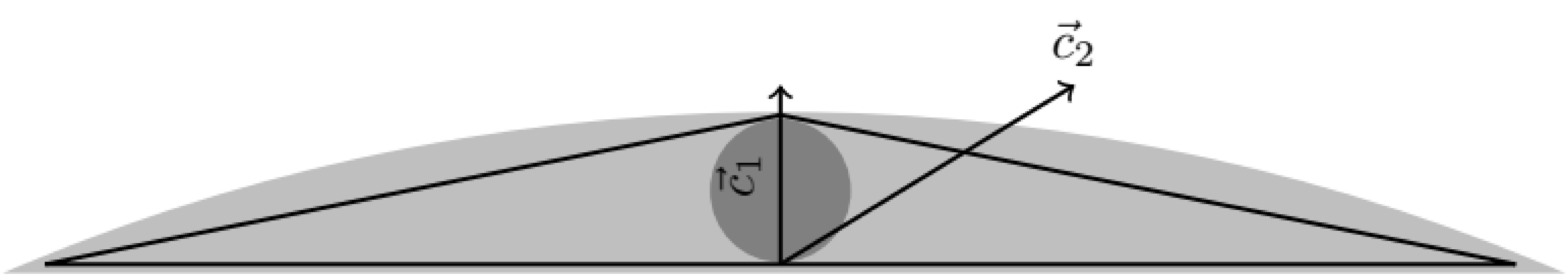


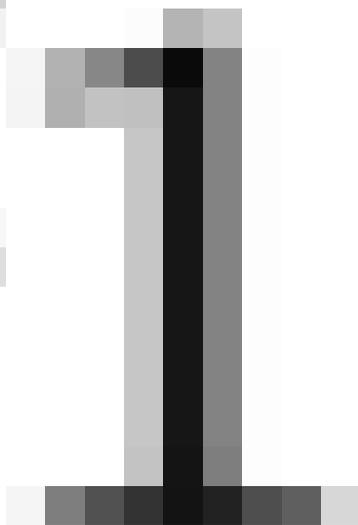
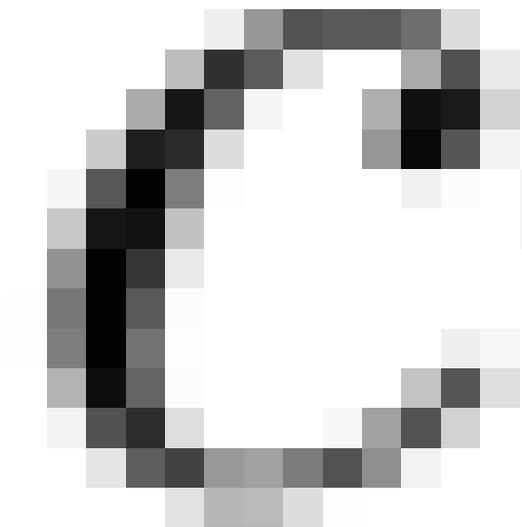
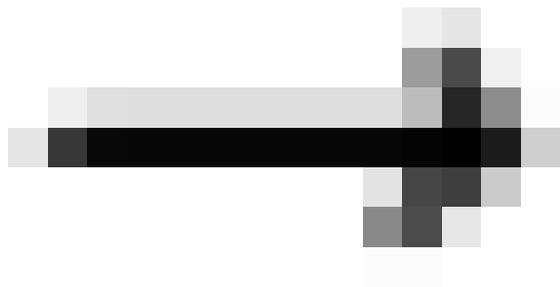
$$\sin\left(2\pi \frac{z}{100}\right) + \cos\left(2\pi \frac{z}{100}\right) \text{ vs } [1, \dots, 100]$$

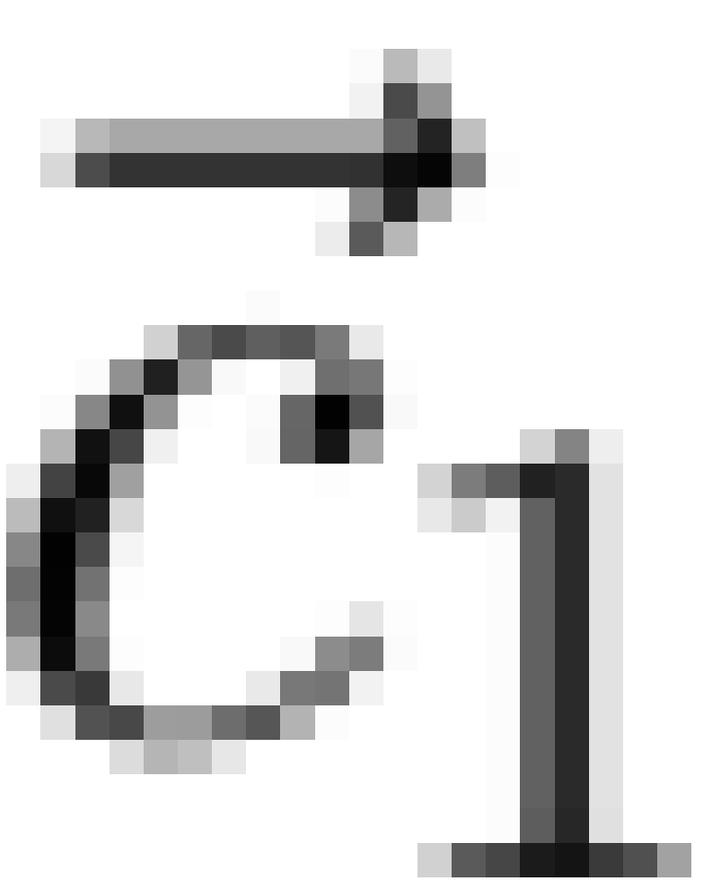








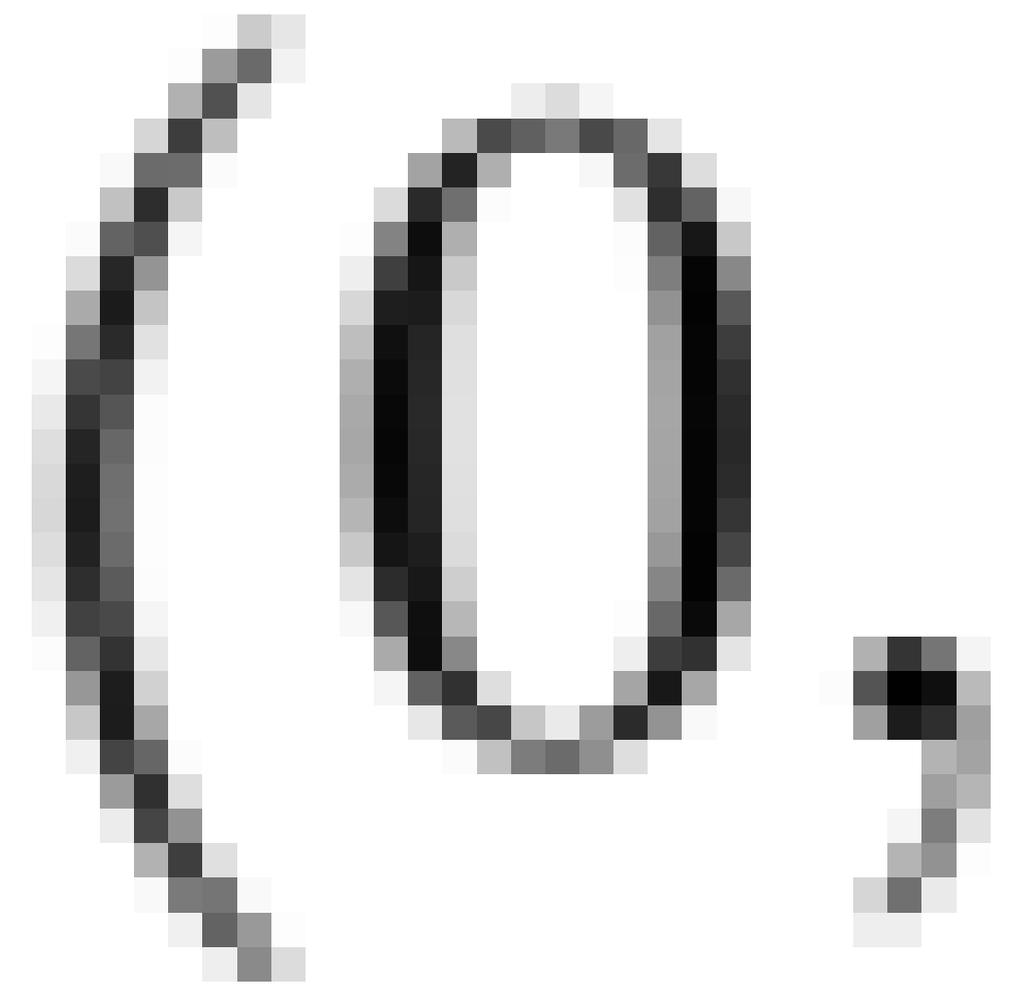




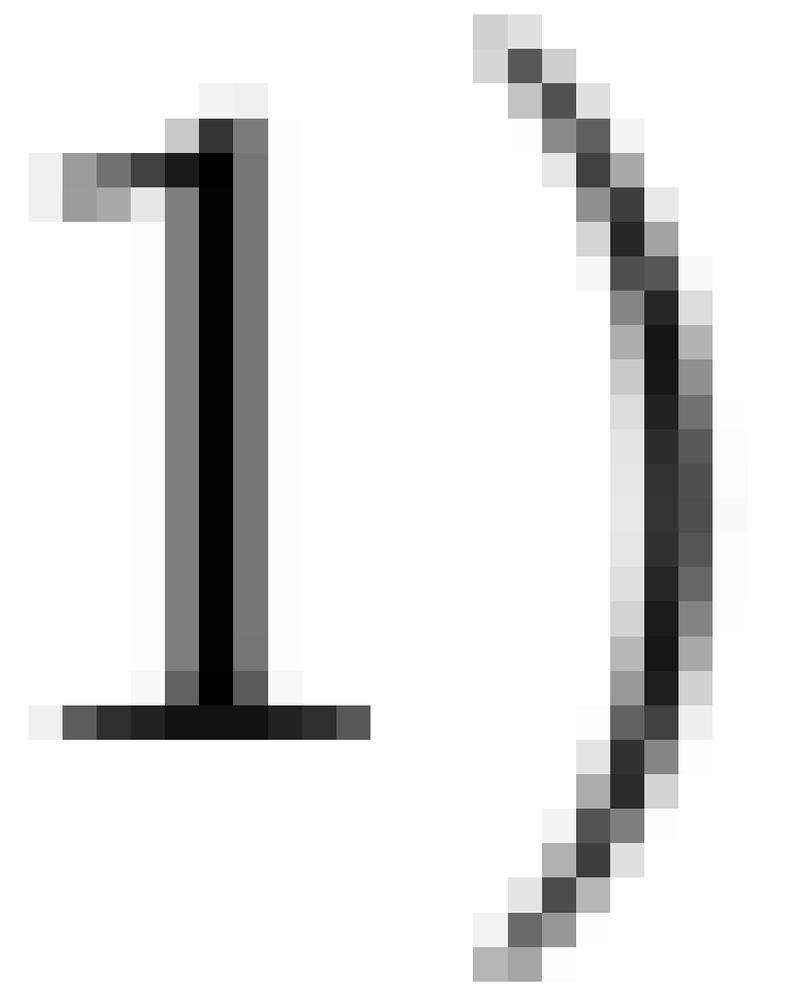
C I



E E



O S



I J

0 1 2 3 4