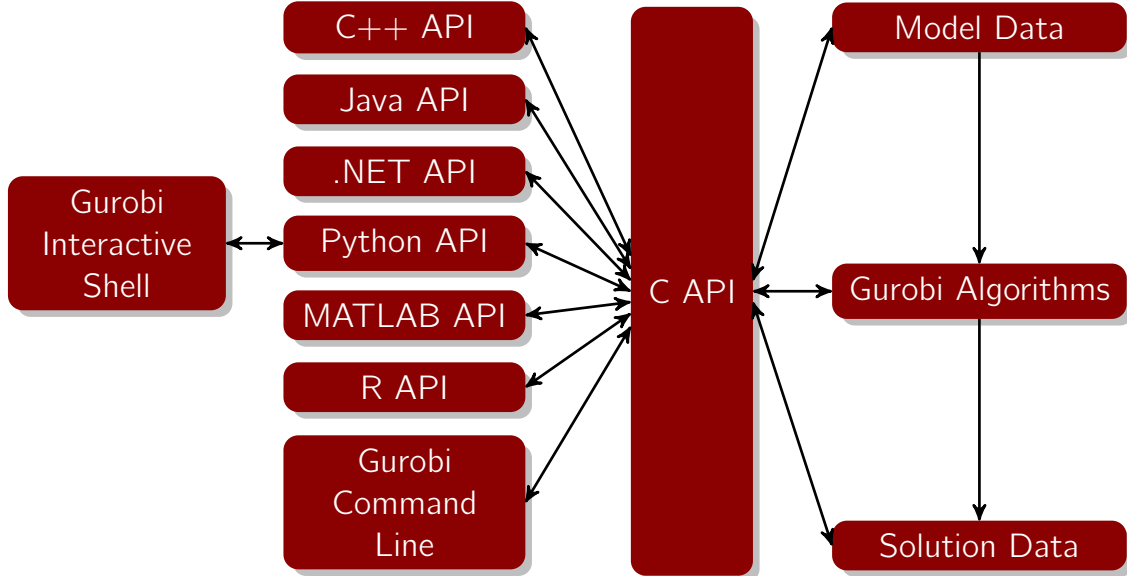




GUROBI  
OPTIMIZATION



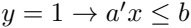
www.xiaozhuang.com

www.vivian.com

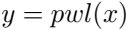


1992-1993

1992-1993



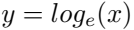


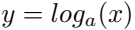


$$v = p_0 x^2 + p_1 x - 1 + p_2 x^2 + p_3 x^2 + p_4 x^2$$

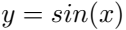




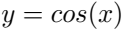


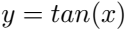






























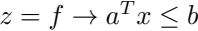


1991-1992













1011























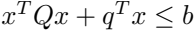




100%







2023 + 2023 = 2023













































A pixelated, black and white representation of the mathematical equation  $e^{\pi \sqrt{163}} + 2324358 + e^{\pi \sqrt{163}} = 10^6$ . The equation is rendered in a stylized, blocky font where each character is composed of small squares. The symbols include the base of the natural logarithm  $e$ , the Greek letter pi  $\pi$ , the square root symbol  $\sqrt{\phantom{x}}$ , the number 163, the plus sign  $+$ , the number 2324358, another plus sign  $+$ , another  $e^{\pi \sqrt{163}}$  term, an equals sign  $=$ , and the number 10 followed by a superscript 6. The entire image has a low-resolution, dithered appearance.

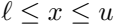








$x^2 + x + 1$



x q x + q x x b e t a



1999

$$x \left[ \text{rev} x \right] = \text{rev} \left[ \text{rev} x \right] \quad \text{rev} \left[ \text{rev} x \right] = x$$





$x_{\text{even}} = x_{\text{odd}}$

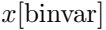


**[x] [1] [2] [3] [4] [5] [6] [7] [8] [9] [0]**

[[[BIB]]] = [[BIB]]

was [or] in [the] way

$x[biv] = biv(x) \cdot sec\theta$





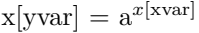
*valis valis*



1991-1992

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

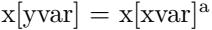
www.ourx.org



xxvii] 109] xxi]

$x \log x = \log x$





www.bixia.com

**xxviii] = cob] xvi]**

$x \left[ \frac{1}{2} \right]_{\text{old}} = x \left[ \frac{1}{2} \right]_{\text{new}}$

*odjB odjV*



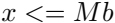






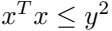


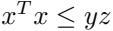






32 + 52 = 10













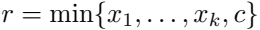
2021-2022-2023

www.xbox.com

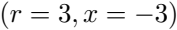




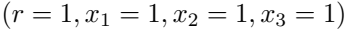






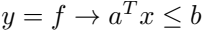






Handwritten text in a cursive script, likely a signature or name, rendered in a pixelated, grayscale style. The text is "Wendy".













2012. 2. 2. 2012. 2. 2.

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

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

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

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

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

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





www.xixi.com

2013









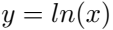




$$r \geq x_j \text{ for all } j = 1, \dots, k$$

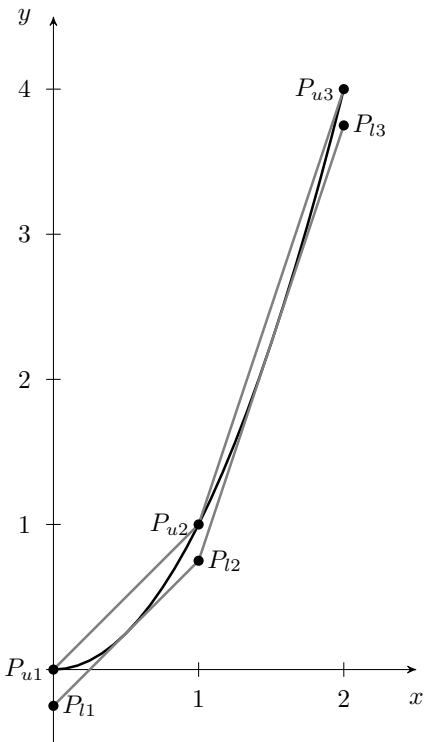
$$r \geq c$$

$$x^n + x^{n-1} + \dots + x + 1$$















Pravda, pravda, pravda,

Pr1025, Pr21075, Pr22375





















100% 100%

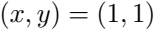


2020













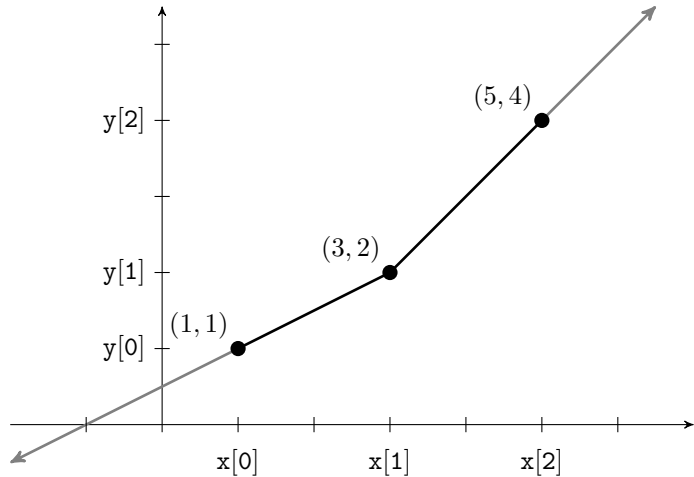












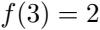












154

101010

100005

$x$

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]

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

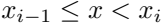


$$\begin{aligned}
 & \left( x^2 - 1, x^2 - 1 \right), \left( x^2 - 1, x^2 + 1 \right), \left( x^2 + 1, x^2 + 1 \right), \\
 & \left( x^2 + 1, x^2 - 1 \right), \left( x^2 - 1, x^2 + 1 \right), \left( x^2 + 1, x^2 + 1 \right)
 \end{aligned}$$



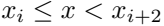


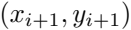


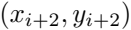


1991-1992







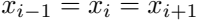


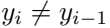




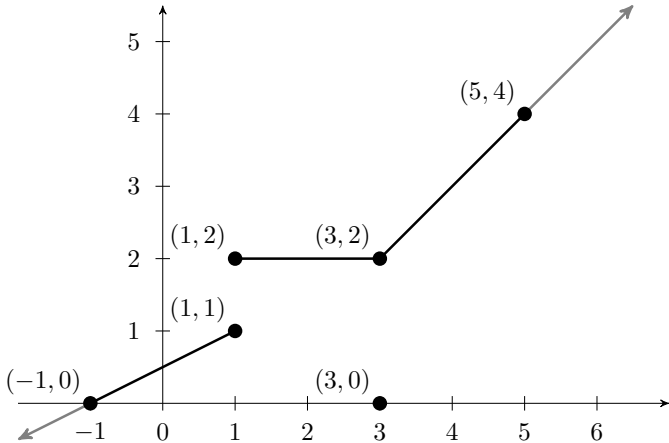


$$(x_2, x_2), (x_1, x_1), (x_2, x_1), (x_1, x_2), (x_2, x_2)$$







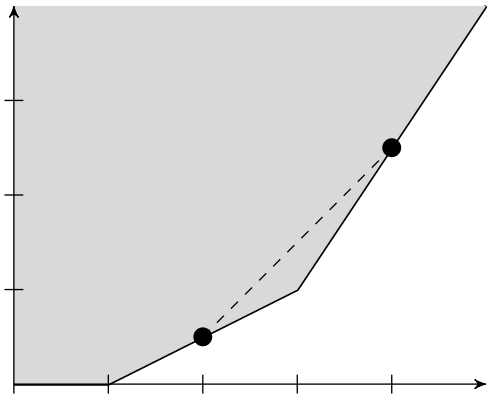


(-1, 0, 1, 2, 3, 0, 1, 2, 3, 0, 1, 2)

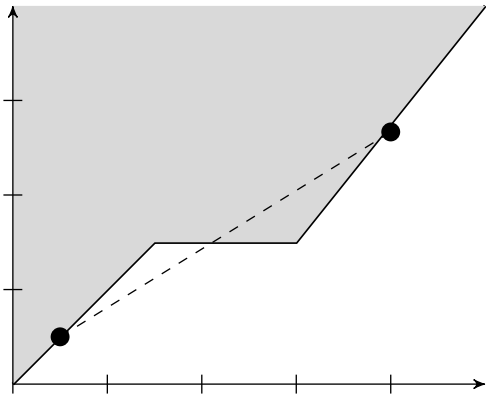




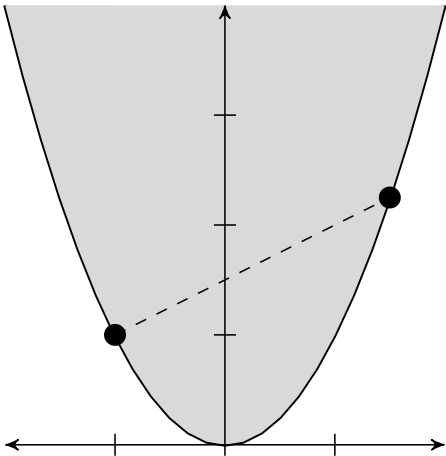








$$3x^2 + 4x^2 + 2x^2 + 2x^2 + 2x^2$$









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

























minimize  $c'x$

subject to  $Ax \geq b$

$x \geq 0$

$$\begin{array}{ll}
 \text{maximize} & b'y \\
 \text{subject to} & A'y \leq c \\
 & y \geq 0
 \end{array}$$























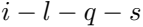








































$$(10x01^2+2x01x02+2x02x01+2x02^2)/2$$





A pixelated, grayscale image of a stylized, symmetrical figure. The figure has a central vertical axis and is composed of various shades of gray and black pixels. It appears to be a person or a creature with outstretched arms, rendered in a low-resolution, blocky style. The figure is centered on a white background.

A large, pixelated, grayscale letter 'Q' centered on a white background. The letter is composed of various shades of gray, from light to dark, creating a blocky, digital appearance. The 'Q' is slightly tilted to the right.

A 15x15 grayscale pixelated image of a stylized letter 'C'. The letter is formed by a thick, blocky stroke. The pixels are in various shades of gray, from light to dark, creating a textured, almost 3D effect. The 'C' is positioned in the center of the frame, with its top and bottom curves clearly defined by the pixelated edges. The background is a uniform light gray.

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









$$1 - (1 + x + 2x^2 + 2x^3) = 1 - x + 4x^2 - 4x^3$$

100







$$\text{base value} = \max\{\text{bestsol}, \text{bestbnd} + \text{gap}, \text{bestbnd} + \text{agg}\}$$



W E A R E

A pixelated, black and white representation of the word "WELCOME" in a stylized, blocky font. The letters are composed of various shades of gray and black pixels, giving it a retro, digital appearance. The word is centered horizontally and occupies most of the width of the image.









12345

100100050001



0123



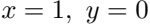
$$x - 6y = 1$$

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

VOX-VOX

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

$$\Leftrightarrow 0.001x = 0.001$$



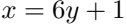
$$x - 6y = 1$$

$$0.3333333333333333x - 2y = 0.3333333333333333$$

*y=061666666666666666666666-0616666666666666*



$$\begin{aligned}
 x - 6 \cdot (0.16666666666666667x - 0.16666666666666667) &= 1 \\
 \Leftrightarrow 2 \cdot 10^{-16}x + 1 + 2 \cdot 10^{-16} &\approx 1
 \end{aligned}$$



1234567890







$$\min \quad 0$$

$$s.t. \quad x \leq 0$$

$$x \geq 10^{-10}$$











we are 100% 100%

















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







1000





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



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

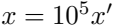
10-7 10-1

105

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

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

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





10-2010-2

100-3 1001

$$\begin{aligned}
 x - 10^6 y &\geq 0 \\
 y &\in [0, 10]
 \end{aligned}$$

$$x - 10y_1 \geq 0$$

$$y_1 - 10y_2 = 0$$

$$y_2 - 10y_3 = 0$$

$$y_3 - 10y_4 = 0$$

$$y_4 - 10y_5 = 0$$

$$y_5 - 10y = 0$$

$$y \in [0, 10]$$

A pixelated, black and white graphic of the text "100% 2011". The characters are rendered in a bold, blocky font with a dithered or anti-aliased appearance, giving it a retro, digital feel. The "100" is followed by a percentage sign, and "2011" follows. The entire graphic is set against a plain white background.

$$x - 10^3 y' \geq 0$$

$$y' \in [0, 10^4]$$

10-23-2020







$$x \leq 10^6 y$$

$$x \geq 0$$

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

WELCOME TO THE



$$x \leq 10^3 y$$

$$x \geq 0$$

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

W E O I



100



6-106/000099=6-0606-106.



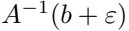














$$\|b, e\| = \frac{\|A^{-1}b\|}{\|A^{-1}(b+e)\|} \leq \frac{\|b\|}{\|b+e\|}.$$

W.A. = Invalid

$\pi(A)$

$=$

$\lambda_{\max}$





no A)

=

AA-1

100%





max

$cx$

s.t.

$Ax \leq b.$

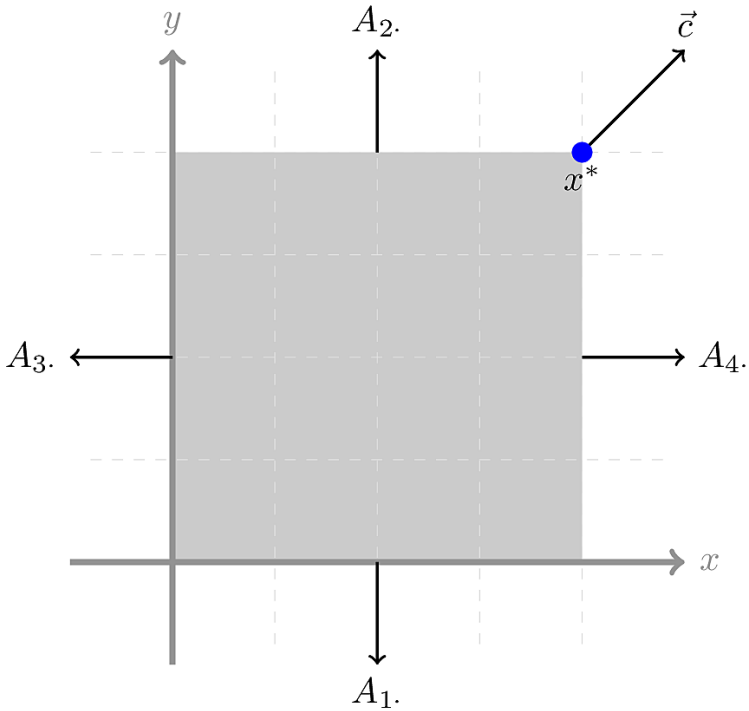
$$\begin{array}{llll}
\max & x + y & \vec{c} = & (1, 1) \\
s.t. & -x \leq 0 & A_1 = & (-1, 0) \\
& x \leq 1 & A_2 = & (1, 0) \\
& -y \leq 0 & A_3 = & (0, -1) \\
& y \leq 1 & A_4 = & (0, 1).
\end{array}$$



Waxen words  
are  
dead  
as  
flowers  
are  
as  
flowers  
are







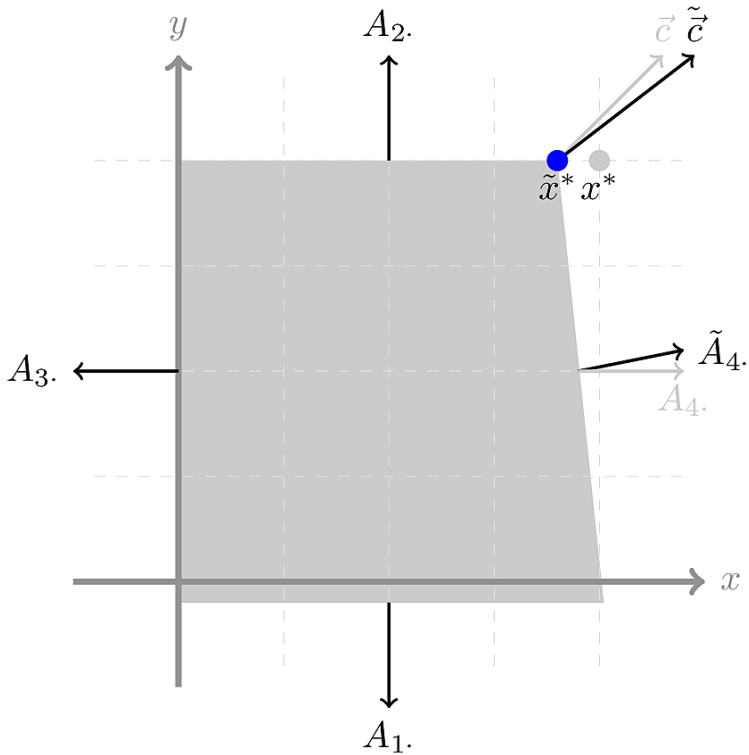




for 10,000







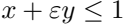




100%



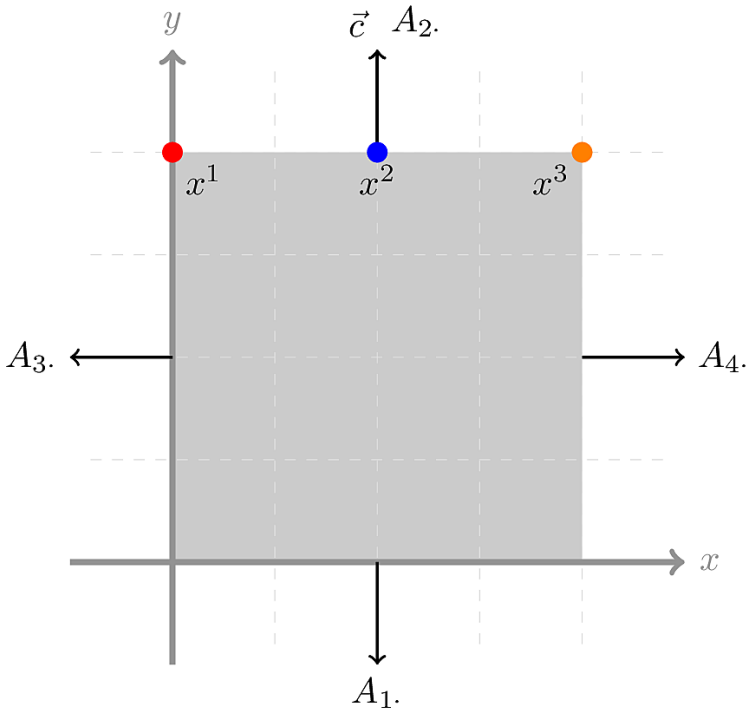
100%





A pixelated, black and white graphic of the text "100% + 50% 100%". The text is rendered in a bold, blocky font with a dithered or pixelated appearance. The characters are composed of various shades of gray and black pixels. The plus sign is a simple cross shape. The overall style is reminiscent of early digital art or low-resolution computer graphics.

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

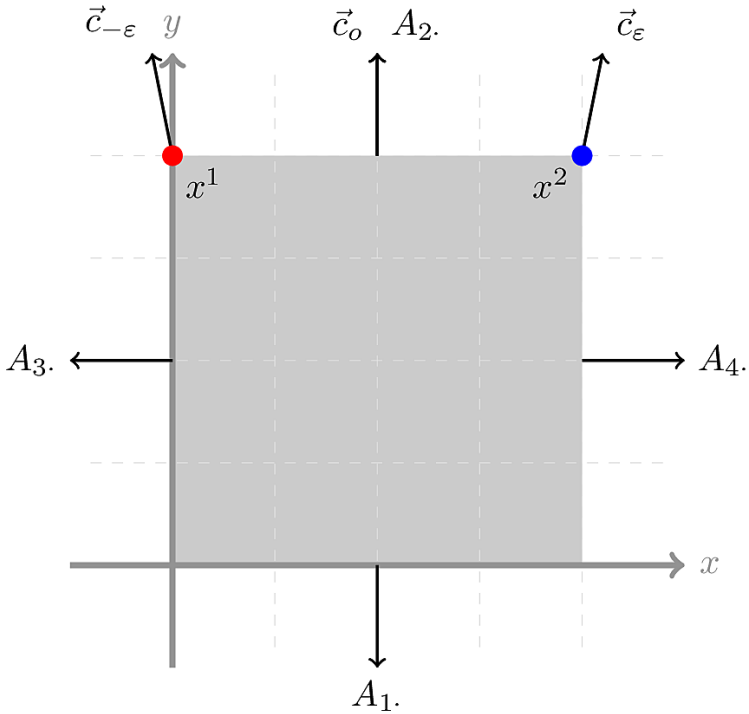








$$\begin{array}{llll}
\max & \varepsilon x + y & \vec{c} = & (\varepsilon, 1) \\
s.t. & -x \leq 0 & A_1. = & (-1, 0) \\
& x \leq 1 & A_2. = & (1, 0) \\
& -y \leq 0 & A_3. = & (0, -1) \\
& y \leq 1 & A_4. = & (0, 1).
\end{array}$$







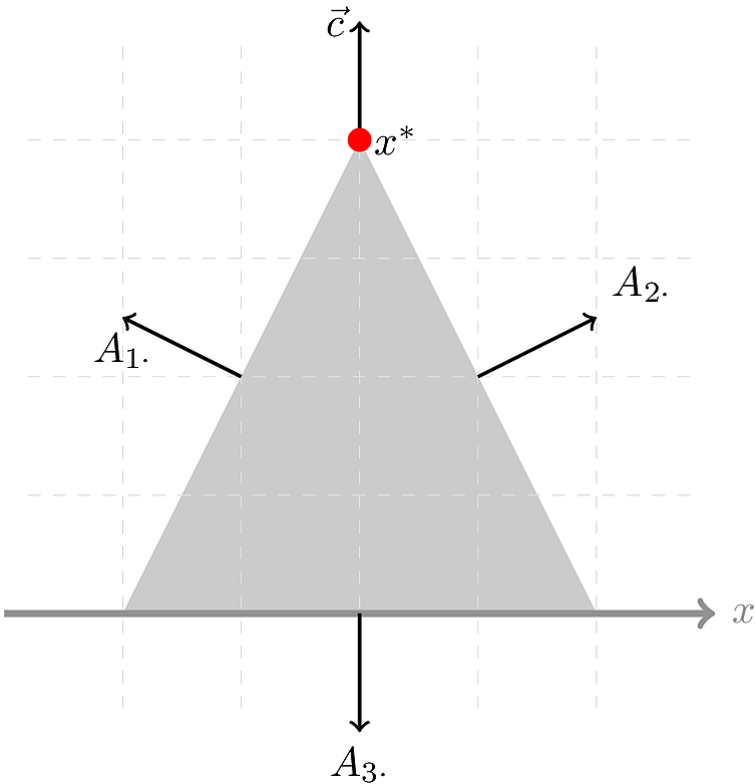


100% 1

100%



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



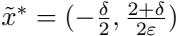






1001







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x\*

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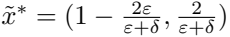
+

|0|  
—  
e





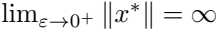
















$$\sin(2\pi \frac{i}{10^6})x + \cos(2\pi \frac{i}{10^6})v \leq 1, \forall i \in \{1, \dots, 10^6\},$$





