

$$\left(-\frac{2}{3}\right)^{-2} = \frac{1}{\left(-\frac{2}{3}\right)^2} = \frac{1}{\frac{4}{9}} = \frac{1}{1} \cdot \frac{9}{4} = \frac{9}{4}$$

$$\left(\frac{1}{x+1} - \frac{2x}{x^2-1}\right) \cdot \left(\frac{1}{x} - 1\right) =$$

$$= \frac{1}{x+1} \cdot \frac{1}{x} - \frac{1}{x+1} - \frac{2x}{x^2-1} \cdot \frac{1}{x} + \frac{2x}{x^2-1} =$$

$$= \frac{1}{x(x+1)} - \frac{1}{x+1} - \frac{2x}{x(x^2-1)} + \frac{2x}{x^2-1} =$$

$$= \frac{1-x}{x(x+1)} - \frac{2x+2x^2}{x(x^2-1)} =$$

$$= \frac{1-x}{x(x+1)} - \frac{2x+2x^2}{x(x+1)(x-1)} =$$

$$= \frac{(1-x)(x-1) - 2x + 2x^2}{x(x+1)(x-1)} =$$

$$= \frac{x-1-x^2+x-2x+2x^2}{x(x+1)(x-1)} =$$

$$= \frac{x^2-1}{x(x+1)(x-1)} =$$

$$= \frac{(x+1)(x-1)}{x(x+1)(x-1)} = \frac{1}{x}$$

$x \neq 0$
 $x \neq -1$
 $x \neq 1$

$$\left(\frac{3ax^2}{b^{-1}x} \right)^{-1} =$$

$$= \frac{1}{\frac{3ax^2}{\frac{1}{b^1} \cdot x}} = \frac{1}{\frac{3ax^2}{1} \cdot \frac{b}{x}} = \frac{1}{\frac{3abx^2}{x}} = \frac{1}{1} \cdot \frac{x}{3abx^2} =$$

$$= \frac{1}{\underline{\underline{3abx}}} \quad \begin{array}{l} a \neq 0 \\ b \neq 0 \\ x \neq 0 \end{array}$$

ŘEŠTE ROVNICI S NEZNÁMOU $x \in \mathbb{R}$

$$\boxed{x^2 - 6x - 7 = 0}$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x_{1,2} = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \cdot 1 \cdot (-7)}}{2 \cdot 1}$$

$$x_{1,2} = \frac{6 \pm \sqrt{36 - (-28)}}{2}$$

$$x_{1,2} = \frac{6 \pm \sqrt{64}}{2}$$

$$x_{1,2} = \frac{6 \pm 8}{2} \quad \begin{array}{l} x_1 = 7 \\ x_2 = -1 \end{array}$$

$$\underline{\underline{K = \{7, -1\}}}$$

URČETE DEFINIČNÍ OBOR FCE:

$$f(x) = \sqrt{\log x}$$

$$x > 0$$

pro logaritmus, ale s další podmínkou

$$x \geq 0$$

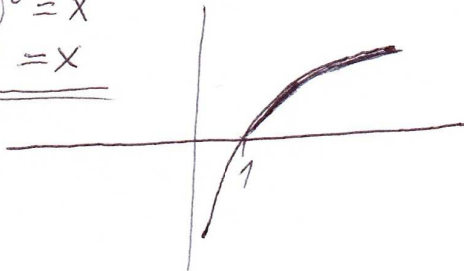
pro odmocninu

mezi 1, by bylo
ZÁPORNÉ ČÍSLO

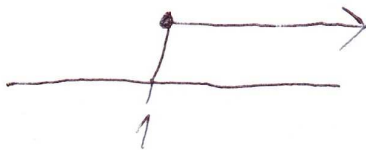
$$\log x = 0$$

$$\log_{10} x = 0$$

$$\begin{aligned} 10^0 &= x \\ \underline{\underline{1}} &= x \end{aligned}$$



$$K \in \langle 1, +\infty \rangle$$



NAKRESLETE GRAF FCE A OZNAČTE
PRŮSECÍKY SE SOUŘADNICOVÝMI
OSAMI

$$y = 2x - 4$$

$$P_x = ? \quad y = 0$$

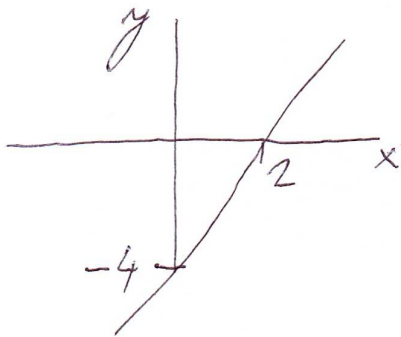
$$\begin{aligned} 0 &= 2x - 4 & | -2x \\ -2x &= -4 & | \cdot (-1) \\ 2x &= 4 & | : 2 \\ x &= 2 \end{aligned}$$

$$P_x [2, 0]$$

$$P_y = ? \quad x = 0$$

$$\begin{aligned} y &= 2 \cdot 0 - 4 \\ y &= -4 \end{aligned}$$

$$P_y [0, -4]$$



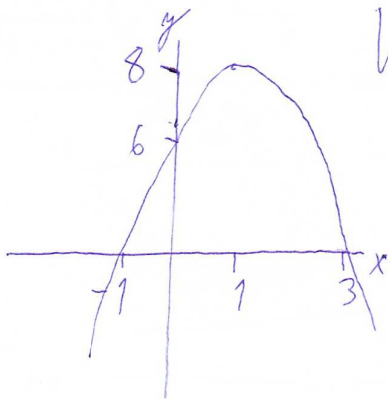
$$y = 6 + 4x - 2x^2$$

$$y = -2x^2 + 4x + 6$$

$$y = -2(x^2 - 2x) + 6$$

$$y = -2(x^2 - 2x + 1) - 1 \cdot (-2) + 6$$

$$y = -2(x-1)^2 + 8$$



$$V[1, 8]$$

$$P_y = 2 \quad x = 0$$

$$y = -2 \cdot 0^2 + 4 \cdot 0 + 6$$

$$y = 6$$

$$P_y [0, 6]$$

$$y = -2x^2 + 4x + 6$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x_{1,2} = \frac{-4 \pm \sqrt{4^2 - 4 \cdot (-2) \cdot 6}}{2 \cdot (-2)}$$

$$x_{1,2} = \frac{-4 \pm \sqrt{16 - 48}}{-4}$$

$$x_{1,2} = \frac{-4 \pm 8}{-4} \quad \begin{cases} x_1 = -1 \\ x_2 = 3 \end{cases}$$

$$P_x [-1, 0]$$

$$P_x [3, 0]$$

KONTROLA VRCHOLU POMOCÍ DERIVACE

$$f' = (-2x^2 + 4x + 6)'$$

$$f' = -4x + 4$$

$$0 = -4x + 4 \quad | +4x$$

$$4x = 4 \quad | :4$$

$$x = 1$$

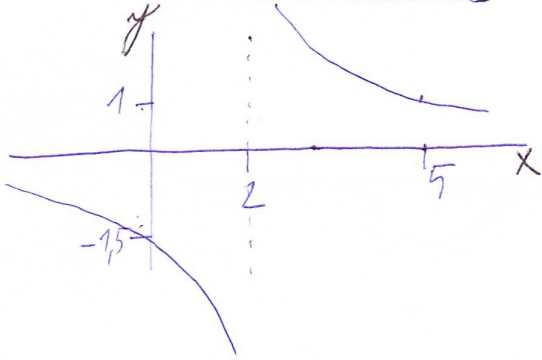
$$y = -2 \cdot 1^2 + 4 \cdot 1 + 6$$

$$y = -2 + 4 + 6$$

$$y = 8$$

$$V[1, 8]$$

$$y = \frac{3}{x-2}$$



$$P_x = ? \quad y = 0$$

$$0 = \frac{3}{x-2} \quad | \cdot (x-2)$$

$$0 = 3$$

$$P_x = ? \quad y = 1$$

$$1 = \frac{3}{x-2} \quad | \cdot (x-2)$$

$$(x-2) = 3$$

$$x-2 = 3 \quad | +2$$

$$x = 5$$

$$P_x [5, 1]$$

$$P_y = ? \quad x = 0$$

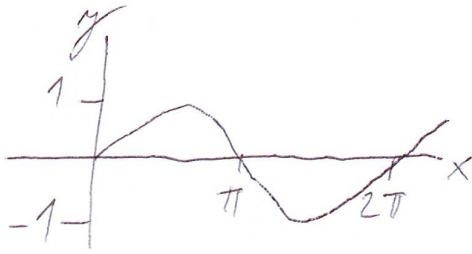
$$y = \frac{3}{0-2}$$

$$y = \frac{3}{-2}$$

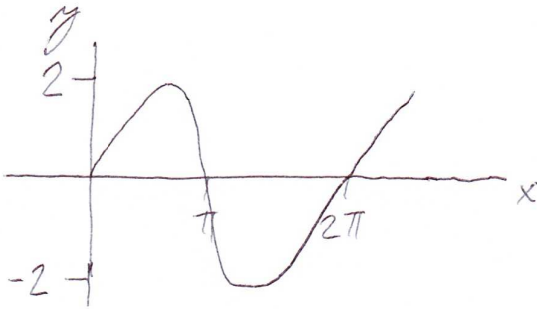
$$y = -1,5$$

$$P_y [0, -\frac{1}{2}]$$

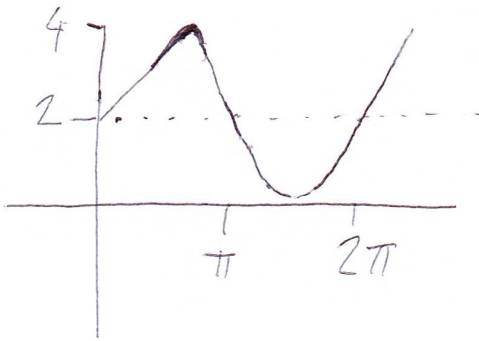
$$2 + 2 \sin x$$



$\sin x$



$2 \sin x$

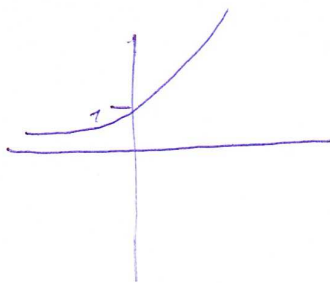


$2 + 2 \sin x$

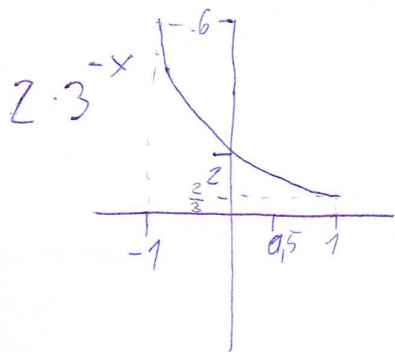
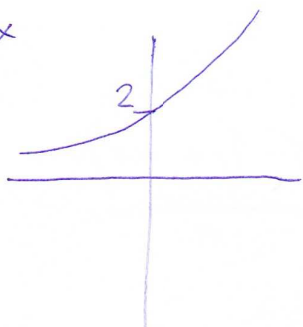
$$y = 2 \cdot 3^{-x}$$

de
source $y = d^x$

3^x



$2 \cdot 3^x$



$$P_{xy} = ? \quad x = 0$$

$$y = 2 \cdot 3^0$$

$$y = 2 \cdot 1$$

$$y = 2$$

$$P_{xy} [0, 2]$$

$$P_{xy} = ? \quad x = -1$$

$$y = 2 \cdot 3^{-(-1)}$$

$$y = 2 \cdot 3$$

$$y = 6$$

$$P_{xy} [-1, 6]$$

$$P_{xy} = ? \quad x = 1$$

$$y = 2 \cdot 3^{-1}$$

$$y = 2 \cdot \frac{1}{3}$$

$$y = \frac{2}{3}$$

$$P_{xy} [1, \frac{2}{3}]$$

$$\begin{aligned} & \left(\frac{1}{64}\right)^{\frac{1}{3}} + 9^{\frac{2}{4}} \cdot 8^{-\frac{2}{3}} = \\ & = \frac{\sqrt[3]{1}}{\sqrt[3]{64}} + 9^{\frac{1}{2}} \cdot \frac{1}{8^{\frac{2}{3}}} = \\ & = \frac{1}{4} + \sqrt{9} \cdot \frac{1}{\sqrt[3]{8^2}} = \\ & = \frac{1}{4} + 3 \cdot \frac{1}{\sqrt[3]{64}} = \\ & = \frac{1}{4} + 3 \cdot \frac{1}{4} = \\ & = \frac{1}{4} + \frac{3}{4} = \\ & = \frac{1+3}{4} = \\ & = \frac{4}{4} = \\ & = \underline{\underline{1}} \end{aligned}$$

$$\frac{\frac{1}{x} - 1}{\frac{1+x}{x}} \cdot \frac{x-1}{x} =$$

$$= \left(\frac{1}{x} - \frac{1}{1} \right) \cdot \left(\frac{x}{1+x} \right) \cdot \left(\frac{x}{x-1} \right) =$$

$$= \left(\frac{1-x}{x} \right) \cdot \left(\frac{x}{1+x} \right) \cdot \left(\frac{x}{x-1} \right) =$$

$$= \frac{x - x^2}{x(1+x)} \cdot \frac{x}{x-1} =$$

$$= \frac{x(1-x)}{x(1+x)} \cdot \frac{x}{x-1} =$$

$$= \frac{(1-x)}{(1+x)} \cdot \frac{x}{x-1} =$$

$$= -\frac{1}{1} \cdot \frac{(x-1)}{(1+x)} \cdot \frac{x}{x-1} =$$

$$= -\frac{1}{1} \cdot \frac{1}{(1+x)} \cdot \frac{x}{1} =$$

$$= \underline{\underline{-\frac{x}{1+x}}}$$

$$x \neq -1$$

$$x \neq 0$$

$$x \neq 1$$

$$\begin{aligned} 3x - 2y &= 2 \\ 2x + y &= 6 \end{aligned}$$

$$\begin{array}{r} 3x - 2y = 2 \quad | \cdot (-2) \\ 2x + y = 6 \quad | \cdot 3 \\ \hline -6x + 4y = -4 \\ 6x + 3y = 18 \quad / \quad + \\ \hline 7y = 14 \quad | : 7 \\ y = 2 \end{array}$$

$$\begin{aligned} 3x - 2 \cdot 2 &= 2 \\ 3x - 4 &= 2 \quad | + 4 \\ 3x &= 6 \quad | : 3 \\ x &= 2 \end{aligned}$$

$$\underline{\underline{K = \{ [x, y] = [2, 2] \}}}$$

$$\begin{aligned} \text{ZK: } L_1 &= 3 \cdot 2 - 2 \cdot 2 = 2 \\ P_1 &= 2 \end{aligned}$$

$$L_1 = P_1 \wedge L_2 = P_2$$

$$\begin{aligned} L_2 &= 2 \cdot 2 + 2 = 6 \\ P_2 &= 6 \end{aligned}$$

$$2x^2 - 4x + 2 = 0$$

$$2x^2 - 4x + 2 = 0$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

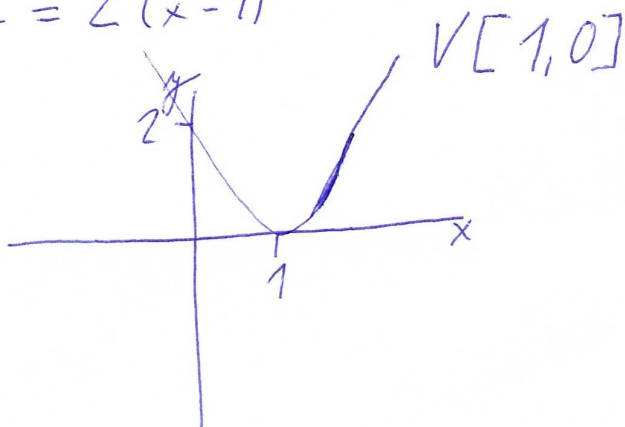
$$x_{1,2} = \frac{-(-4) \pm \sqrt{(-4)^2 - 4 \cdot 2 \cdot 2}}{2 \cdot 2}$$

$$x_{1,2} = \frac{4 \pm \sqrt{16 - 16}}{4}$$

$$x_{1,2} = \frac{4 \pm 0}{4} \quad \left\{ \begin{array}{l} x_1 = 1 \\ x_2 = 1 \end{array} \right.$$

VÍCENÁSOBNÝ KOREŇ

$$\begin{aligned} y &= 2x^2 - 4x + 2 \\ y &= 2(x^2 - 2x) + 2 \\ y &= 2(x^2 - 2x + 1) - 2 \cdot 1 + 2 \\ y &= 2(x-1)^2 - 2 + 2 \\ y &= 2(x-1)^2 \end{aligned}$$



OVĚŘENÍ VRCHOLU

$$\begin{aligned} f' &= (2x^2 - 4x + 2)' \\ f' &= 4x - 4 \end{aligned}$$

$$\begin{aligned} 4x - 4 &= 0 \quad | +4 \\ 4x &= 4 \quad | :4 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} y &= 2 \cdot 1^2 - 4 \cdot 1 + 2 \\ y &= 0 \end{aligned}$$

$$\begin{aligned} P_y &= ? \quad x = 0 \\ y &= 2 \cdot 0^2 - 4 \cdot 0 + 2 \\ y &= 2 \end{aligned}$$

$P_y [0, 2]$

$$2^x \cdot 4 = 16$$

$$2^x \cdot 2^2 = 2^4$$

$$2^{x+2} = 2^4$$

$$x+2 = 4 \quad | -2$$

$$\underline{\underline{x = 2}}$$

$$\log_4 x = \frac{3}{2}$$

$$4^{\frac{3}{2}} = x$$

$$\sqrt{4^3} = x$$

$$\sqrt{64} = x$$

$$8 = x$$

$$\underline{\underline{K = \{8\}}}$$

$$f(x) = \sqrt{x - \frac{2}{5}} + \sqrt{\frac{4}{5} - x}$$

①

$x - \frac{2}{5} \geq 0$ podmínka pro odmocninu

$$x - \frac{2}{5} \geq 0 \quad | + \frac{2}{5}$$

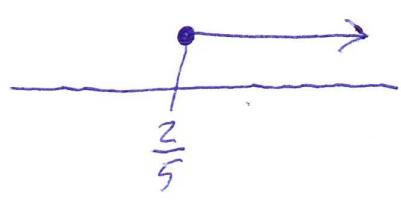
$$x \geq \frac{2}{5}$$

$$(x - \frac{2}{5}) = 0$$

$$x_0 = \frac{2}{5}$$

	$(-\infty, \frac{2}{5})$	$(\frac{2}{5}, +\infty)$
$(x - \frac{2}{5})$	-	+
	⊖	⊕

↑ chceme viz $x \geq \frac{2}{5}$



$\langle \frac{2}{5}, +\infty \rangle$

②

$\frac{4}{5} - x \geq 0$ podmínka pro odmocninu

$$\frac{4}{5} - x \geq 0 \quad | - \frac{4}{5}$$

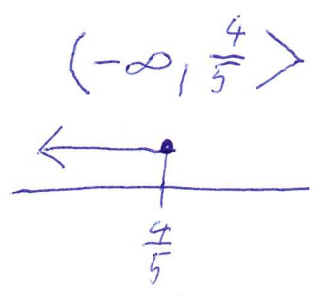
$$-x \geq -\frac{4}{5} \quad | \cdot (-1)$$

$$x \leq \frac{4}{5}$$

$$(x - \frac{4}{5}) = 0$$

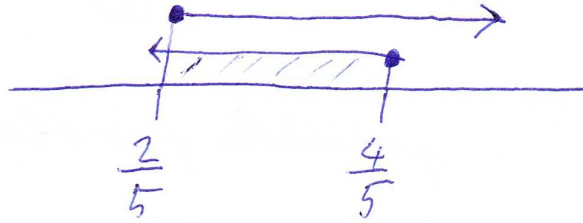
$$x_0 = \frac{4}{5}$$

	$(-\infty, \frac{4}{5})$	$(\frac{4}{5}, +\infty)$
$(x - \frac{4}{5})$	-	+
chceme	⊖	⊕



$(-\infty, \frac{4}{5}]$

VÝSLEDEK :



$$\underline{\underline{K \in \left(\frac{2}{5}, \frac{4}{5} \right)}}$$

$$y = \frac{2 \cos(2x)}{4}$$

⇓

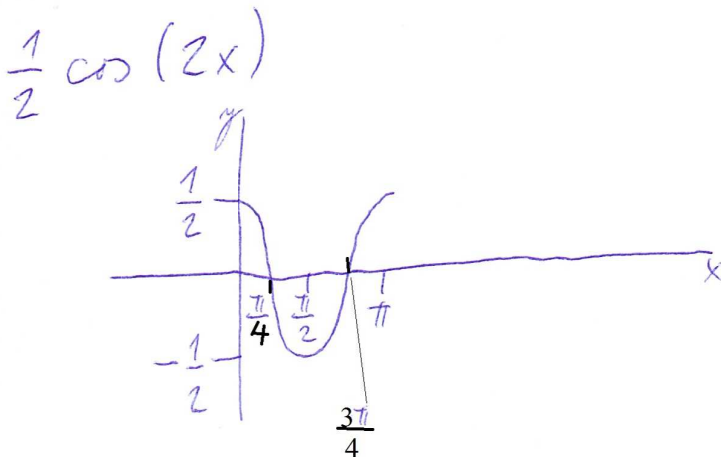
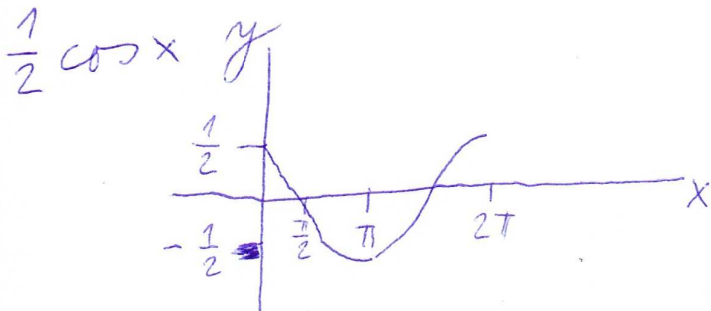
$$y = \frac{1}{4} \cdot 2 \cos(2x)$$

⇓

$$y = \frac{2}{4} \cos(2x)$$

⇓

$$y = \frac{1}{2} \cos(2x)$$



$$\frac{2\pi}{2} = \pi \text{ periods}$$

$$y = \log_3 x + 1$$

$$\log_3 x + 1 = 0 \quad | -1$$

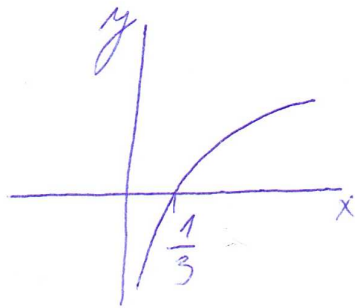
$$\log_3 x = -1$$

$$x = 3^{-1}$$

$$x = \frac{1}{3}$$

$$\underline{x = \frac{1}{3}}$$

(Hledám, když SE
 $\log_3 x$ ROVNA -1)



$$y = -4x^2 - 8x$$

$$y = -4(x^2 + 2x)$$

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

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

$$V[-1, 4]$$

"KONTROLA" DERIVACI

$$f' = (-4x^2 - 8x)'$$

$$f' = -8x - 8$$

$$-8x - 8 = 0 \quad +8$$

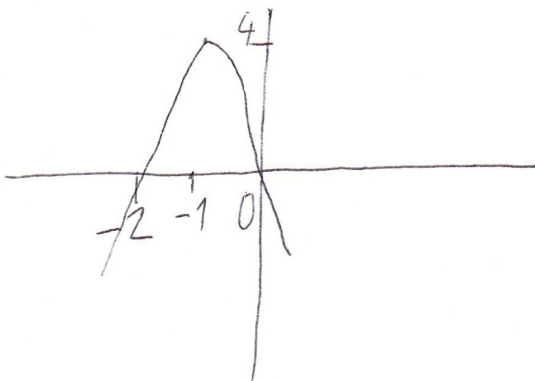
$$-8x = 8 \quad | :(-8)$$

$$x = -1$$

$$y = -4 \cdot (-1)^2 - 8 \cdot (-1)$$

$$y = -4 + 8$$

$$y = 4$$



$$P_y = ? \quad x = 0$$

$$y = -4 \cdot 0^2 - 8 \cdot 0$$

$$y = 0$$

$$P_y [0, 0]$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x_{1,2} = \frac{-(-8) \pm \sqrt{(-8)^2 - 4 \cdot (-4) \cdot 0}}{2 \cdot (-4)}$$

$$x_{1,2} = \frac{8 \pm \sqrt{64}}{-8}$$

$$x_{1,2} = \frac{8 \pm 8}{-8} \quad \begin{cases} x_1 = -2 \\ x_2 = 0 \end{cases}$$

$$\left(\left(\frac{1}{16} \right)^{\frac{1}{4}} + 8^{-\frac{2}{3}} \right)^{-1} =$$

$$= \frac{1}{\left(\frac{1}{16} \right)^{\frac{1}{4}} + \frac{1}{8^{\frac{2}{3}}}} =$$

$$= \frac{1}{\frac{\sqrt[4]{1}}{\sqrt[4]{16}} + \frac{1}{\sqrt[3]{64}}} =$$

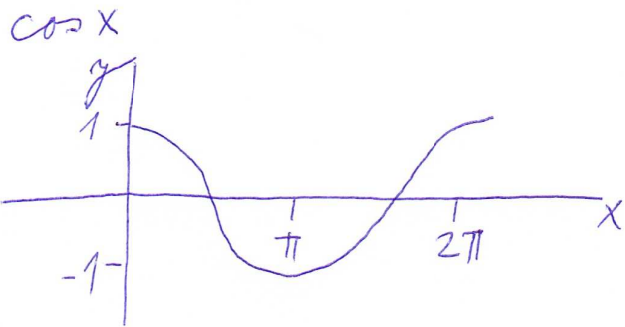
$$= \frac{1}{\frac{1}{2} + \frac{1}{4}} =$$

$$= \frac{1}{\frac{2+1}{4}} =$$

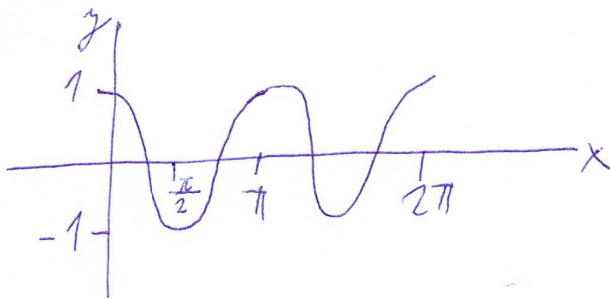
$$= \frac{1}{1} \cdot \frac{4}{3} =$$

$$= \frac{1}{1} \cdot \frac{4}{3} = \underline{\underline{\frac{4}{3}}}$$

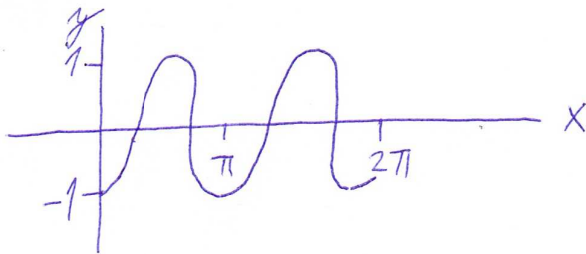
$$2 - \cos 2x$$



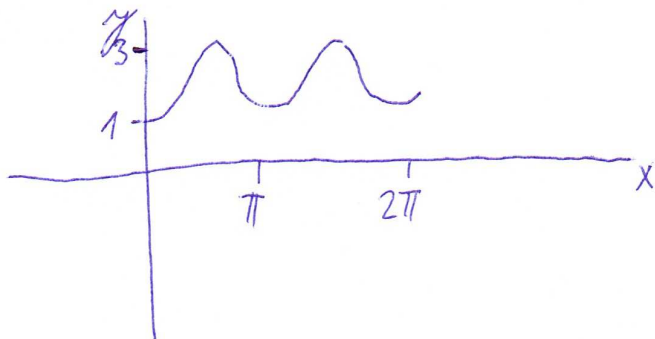
$$\cos 2x$$



$$-\cos 2x$$



$$2 - \cos 2x$$



$$y = 2 \cos \frac{x}{2}$$

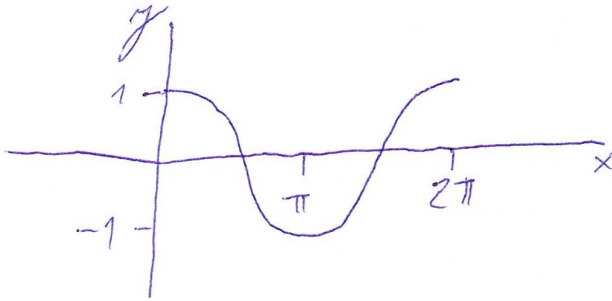


$$y = 2 \cdot \cos \frac{1}{2} x$$

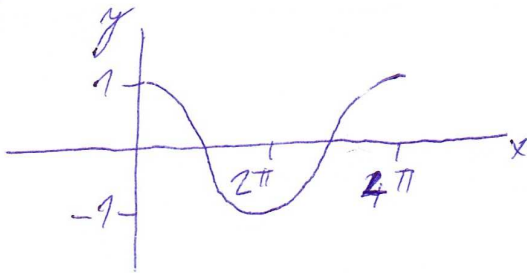
ovlivňuje amplitudu

$$\frac{2\pi}{1} : \frac{1}{2} =$$
$$= \frac{2\pi}{1} \cdot \frac{2}{1} = 4\pi$$

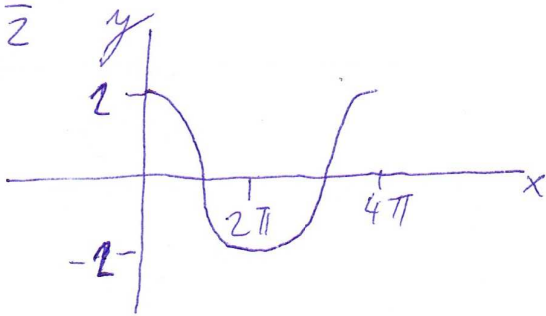
$$y = \cos x$$



$$y = \cos \frac{1}{2} x$$



$$y = 2 \cos \frac{x}{2}$$



$$y = \frac{4 \cos(2x)}{2}$$

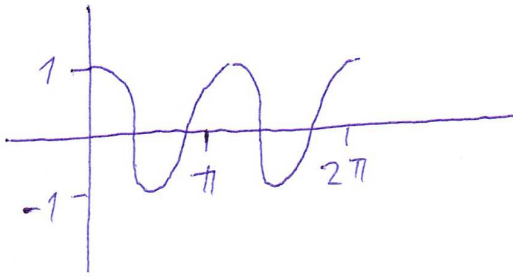


$$y = 2 \cos(2x)$$

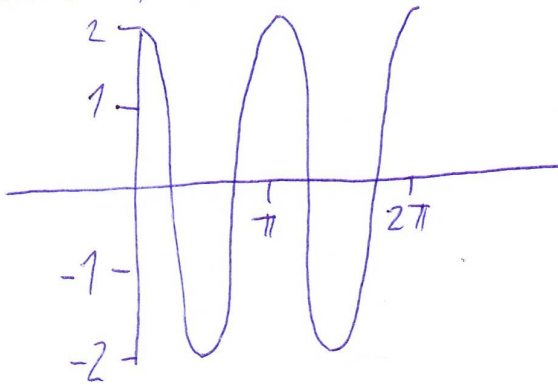
vzdr

$$\frac{\frac{2\pi}{1}}{1} = \frac{2}{1} = \frac{2\pi \cdot 1}{1 \cdot 2} = \frac{2\pi}{2} = \pi$$

$\cos(2x)$



$2 \cos(2x)$



$$\begin{aligned}
 & \overbrace{\sqrt{\frac{1+x}{1-x}} + \sqrt{\frac{1-x}{1+x}}}^a \cdot \overbrace{\sqrt{\frac{1+x}{1-x}} + \sqrt{\frac{1-x}{1+x}}}^b = \\
 & \underbrace{\sqrt{\frac{1+x}{1-x}} - \sqrt{\frac{1-x}{1+x}}}_a \cdot \underbrace{\sqrt{\frac{1+x}{1-x}} + \sqrt{\frac{1-x}{1+x}}}_b = \\
 & = \frac{1+x}{1-x} + \sqrt{\frac{1+x}{1-x}} \sqrt{\frac{1-x}{1+x}} - \sqrt{\frac{1-x}{1+x}} \sqrt{\frac{1+x}{1-x}} + \frac{1-x}{1+x} = \\
 & = \frac{1+x}{1-x} + \sqrt{\frac{1+x}{1-x}} \sqrt{\frac{1-x}{1+x}} - \sqrt{\frac{1-x}{1+x}} \sqrt{\frac{1+x}{1-x}} - \frac{1-x}{1+x} = \\
 & = \frac{1+x}{1-x} + 2 \left(\sqrt{\frac{1+x}{1-x}} \sqrt{\frac{1-x}{1+x}} \right) + \frac{1-x}{1+x} = \\
 & = \frac{1+x}{1-x} - \frac{1-x}{1+x} = \\
 & = \frac{1+x}{1-x} + 2 \sqrt{\frac{(1+x)(1-x)}{(1-x)(1+x)}} + \frac{1-x}{1+x} = \frac{1+x}{1-x} + 2 + \frac{1-x}{1+x} = \\
 & = \frac{1+x}{1-x} - \frac{1-x}{1+x} = \frac{(1+x)(1+x) - (1-x)(1-x)}{(1-x)(1+x)} = \\
 & = \frac{1+x}{1-x} + \frac{2}{1} + \frac{1-x}{1+x} = \frac{(1+x)^2 + 2(1-x^2) + (1-x)^2}{(1-x)(1+x)} = \\
 & = \frac{(1+x+x+x^2) - (1-x-x+x^2)}{1^2 - x^2} = \frac{1+x+x+x^2 - 1+x+x-x^2}{1-x^2} = \\
 & = \frac{(1+x)^2 + 2(1-x^2) + (1-x)^2}{1-x^2} = \frac{(1+x)^2 + 2(1-x^2) + (1-x)^2}{4x} = \\
 & = \frac{1+2x+x^2 + 2(-2x^2) + 1-2x+x^2}{4x} = \frac{4}{4x} = \frac{1}{x}
 \end{aligned}$$

$x \neq 0, x \neq 1, x \neq -1$

$$\left(\frac{1 + \frac{1}{x}}{x-1} - \frac{1}{x} \right) : \frac{1+x}{x} =$$

$$= \frac{x+1-(x-1)}{(x-1)x} \cdot \frac{x}{1+x} =$$

$$= \frac{x+1-x+1}{(x-1)x} \cdot \frac{x}{1+x} =$$

$$= \frac{x+1-x+1}{(x-1) \cdot 1} \cdot \frac{1}{1+x} =$$

$$= \frac{2}{x-1} \cdot \frac{1}{1+x} =$$

$$= \frac{2}{x+x^2-1-x} =$$

$$= \frac{2}{x^2-1} =$$

$$= \frac{2}{\underline{\underline{(x-1)(x+1)}}}$$

$$x \neq -1$$

$$x \neq 0$$

$$x \neq 1$$

$$3^x = 27$$

$$3^x = 3^3$$

$$\underline{x = 3}$$

$$\log_3 3^x = \log_3 27$$

$$\log_3 3^x = \log_3 3^3$$
$$x = 3$$

$$\log_{\frac{1}{4}} x = 2$$

KALKULAČKA

$$\frac{\log 27}{\log 3}$$

$$\left(\frac{1}{4}\right)^2 = x$$

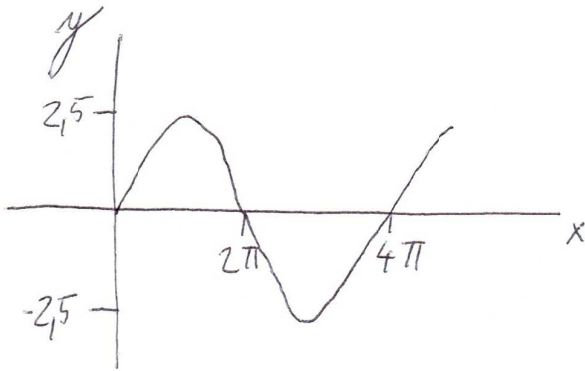
$$\left(\frac{1}{16}\right) = x$$

$$\underline{\underline{\frac{1}{16} = x}}$$

WOLFRAMALPHA.COM:

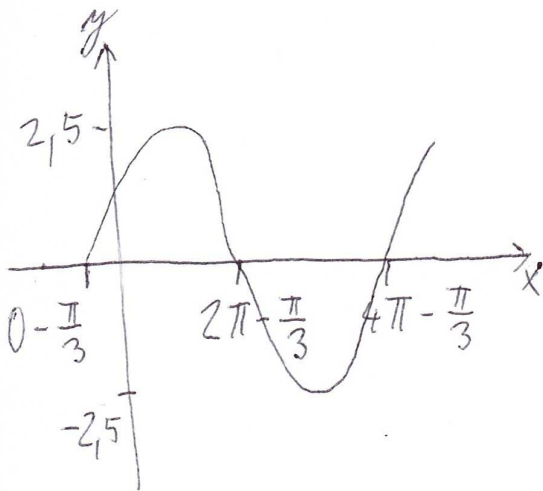
$$\log\left(\frac{1}{4}, x\right) = 2$$

$$y = 2,5 \cdot \sin\left(\frac{x}{2}\right) \Rightarrow y = 2,5 \cdot \sin \frac{1}{2} x$$



$$\frac{2\pi}{1} : \frac{1}{2} = \frac{2\pi}{\frac{1}{2}} = \frac{2\pi}{1} \cdot \frac{2}{1} = 4\pi$$

$$y = 2,5 \cdot \sin\left(\frac{x}{2} + \frac{\pi}{6}\right)$$

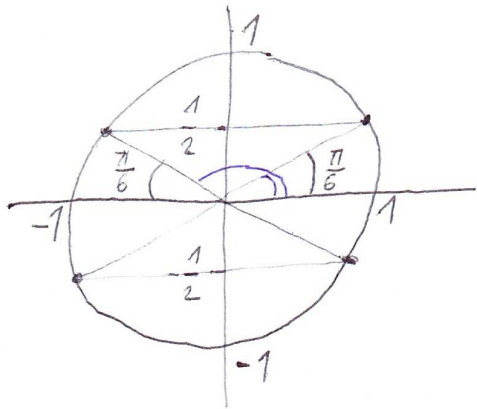


$$\begin{aligned} \frac{x}{2} + \frac{\pi}{6} &= 0 \\ x \cdot \frac{1}{2} + \frac{\pi}{6} &= 0 \quad | -\frac{\pi}{6} \\ x \cdot \frac{1}{2} &= -\frac{\pi}{6} \\ \frac{1}{2} x &= -\frac{\pi}{6} \quad | : \frac{1}{2} \\ x &= -\frac{\pi}{6} \cdot \frac{2}{1} \\ x &= -\frac{2\pi}{6} \\ x &= -\frac{\pi}{3} \end{aligned}$$

$$\sin x = \frac{1}{2}$$

$$y = x$$

Pozn.: $\sin y = 1/2$



NAJDU V TABULCE $\frac{1}{2}$ A ZJISTÍM:
 $\frac{\pi}{6}$ rad

(NAJDU NA KALKULAČCE
- PŘEPNU DO REŽIMU RAD
SHIFT SIN $\frac{1}{2}$)

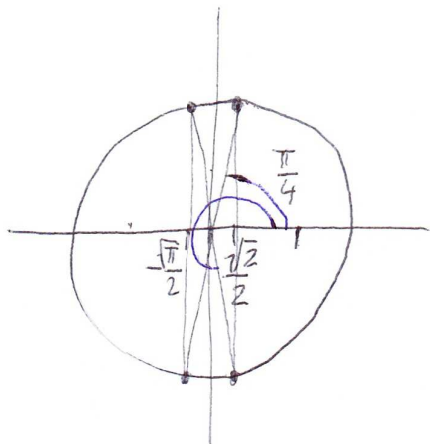
$$\frac{\pi}{1} - \frac{\pi}{6} = \frac{6\pi - \pi}{6} = \frac{5\pi}{6}$$
$$\frac{\pi}{6}$$

$$x_1 = \frac{\pi}{6} + k \cdot 2\pi \quad x_2 = \frac{5\pi}{6} + k \cdot 2\pi$$

$$K = \left\{ \frac{\pi}{6} + k \cdot 2\pi; \frac{5\pi}{6} + k \cdot 2\pi \right\}$$

$$\cos x = \frac{\sqrt{2}}{2}$$

$$2x = y \quad \cos y = \frac{\sqrt{2}}{2}$$



$$\frac{\pi}{4}$$

$$\frac{2\pi}{1} - \frac{\pi}{4} = \frac{8\pi - \pi}{4} = \frac{7\pi}{4}$$

$$2x_1 = \frac{\pi}{4} + k \cdot 2\pi \quad | :2$$

$$2x_2 = \frac{7\pi}{4} + k \cdot 2\pi \quad | :2$$

$$x_1 = \frac{\pi}{8} \cdot k\pi$$

$$x_2 = \frac{7\pi}{8} \cdot k\pi$$

$$K = \left\{ \frac{\pi}{8} \cdot k\pi, \frac{7\pi}{8} \cdot k\pi \right\}$$
