

č. 3.

136/1 a) CO NEJMENŠÍ HODNOST



c) $0,20 \text{ kg} = 5 \text{ jablek}$

d) $0,25 \text{ kg} = 4 \text{ jablek}$

OPAKOVÁNÍ

1) a) ANO

$$0 = a \cdot 0 + b \Rightarrow b = 0$$

$$\frac{1}{4} = a \cdot 1 + b$$

$$\frac{1}{4} = a$$

$$y = \frac{1}{4}x$$

b) NE $2x \quad x=1$

c) NE $2x \quad x=-3$

d) ANO

$$y = ax + b$$

$$-3 = a \cdot 0 + b \Rightarrow b = -3$$

$$-1 = a \cdot 1 + b$$

$$-1 = a - 3$$

$$a = 2$$

$$y = 2x - 3$$

2) a) $y = -4 + \frac{2}{3}x \quad x \in \mathbb{R}$

kostonek!

b) $y = -3x^2 \quad x \in (-\infty; 0)$

x	0	-1	-2	-3
y	0	-3	-12	-27

kostonek!

c) $y = \frac{\sqrt{x}}{x-1}$

x	2	3	4	5
y	5	2.5	5	5/4

kostonek!

d) $y = x^3$

x	-1	0	1	2
y	-1	0	1	8

kostonek!

$$2) y = -\frac{4}{5}x + 4 \quad x \in \mathbb{R}$$

lösungen!

$$7) y = x^2 + 5 \quad x \in (0; \infty)$$

x	1	2	3	4
y	6	9	14	21

lösungen!

$$3) 5x - 4y + 1 = 0$$

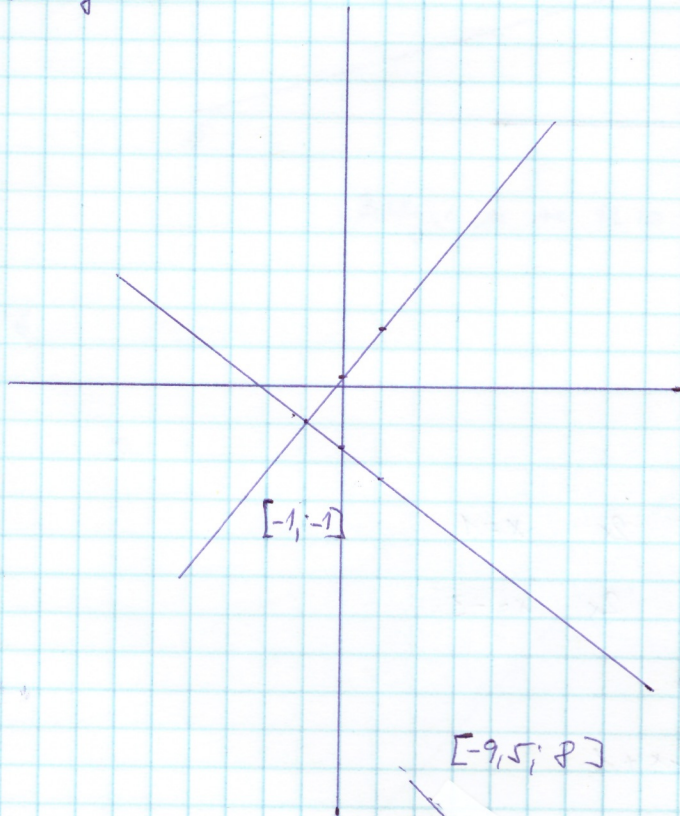
$$2(x+y) + y = -5$$

$$2x + 2y + y = -5$$

$$2x + 3y = -5$$

$$\begin{array}{c|ccc} x & 0 & 1 & -1 \\ \hline y & \frac{1}{4} & \frac{5}{4} & -1 \end{array}$$

$$\begin{array}{c|ccc} x & 0 & 1 & -1 \\ \hline y & -\frac{5}{3} & -\frac{2}{3} & -1 \end{array}$$



$$4) 2(x+y) + 3 = 0$$

$$2x + 3(y+1) = 8$$

$$2x + 2y + 3 = 0$$

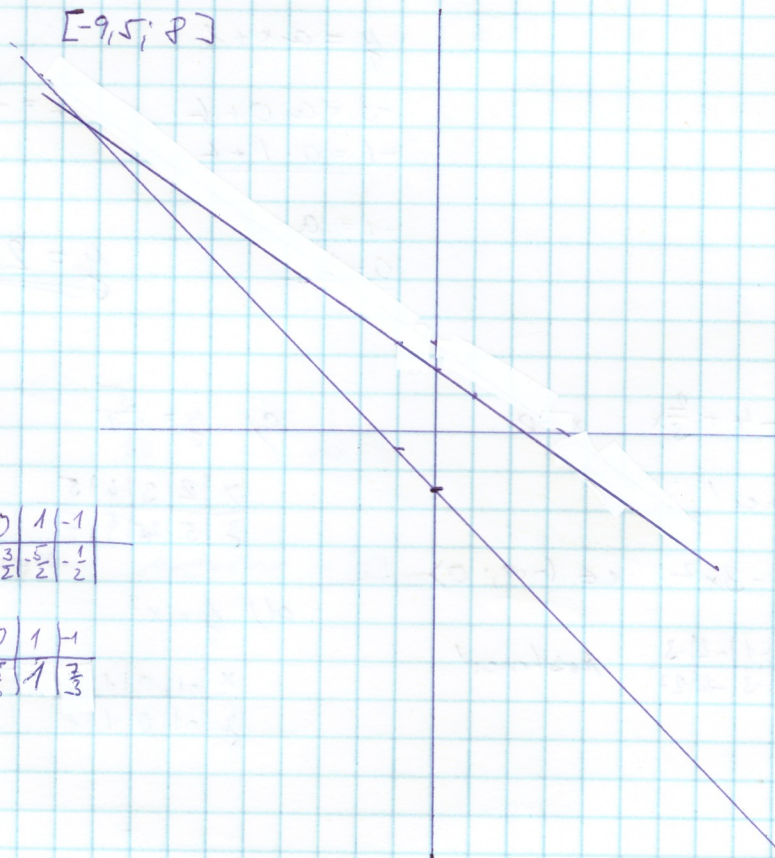
$$2x + 3y + 3 = 8$$

$$2x + 2y = -3$$

$$2x + 3y = +5$$

$$\begin{array}{c|ccc} x & 0 & 1 & -1 \\ \hline y & -\frac{3}{2} & -\frac{5}{2} & -\frac{1}{2} \end{array}$$

$$\begin{array}{c|ccc} x & 0 & 1 & -1 \\ \hline y & \frac{5}{3} & 1 & \frac{1}{3} \end{array}$$



$$c) \quad x + 3(y+1) = \frac{1}{4}$$

$$x - y = \frac{5}{4}$$

$$x + 3y + 3 = \frac{1}{4}$$

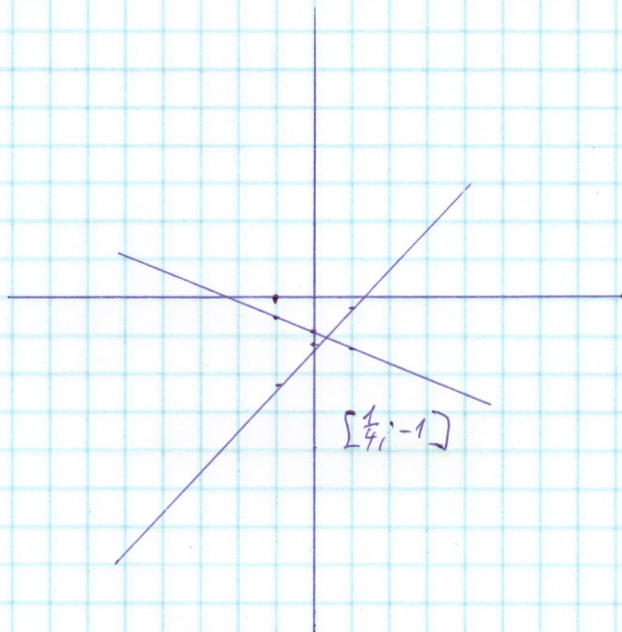
$$x - y = \frac{5}{4}$$

$$x + 3y = -\frac{11}{4}$$

$$x - y = \frac{5}{4}$$

$$\begin{array}{c|c|c|c} x & -1 & 0 & 1 \\ \hline y & \frac{7}{12} & -\frac{11}{12} & -\frac{15}{12} = -\frac{5}{4} \end{array}$$

$$\begin{array}{c|c|c|c} x & -1 & 0 & 1 \\ \hline y & \frac{9}{4} & -\frac{5}{4} & -\frac{1}{4} \end{array}$$



$$4) a) \quad y = \frac{1}{2x} \quad D(f) = (-\infty; 0) \cup (0; \infty)$$

$$b) \quad y = \frac{5}{x-4} \quad D(f) = (-\infty; 4) \cup (4; \infty)$$

$$c) \quad y = \frac{x}{x+1} \quad D(f) = (-\infty; -1) \cup (-1; \infty)$$