

Výsledky:

Příklad 1.

a) $x_{1,2} = \pm\sqrt{3}$

b) $x_1 = -\frac{4}{3}, x_2 = 0$

c) $x_1 = -1, x_2 = -\frac{1}{2}$

d) rovnice nemá žádné reálné řešení

Příklad 2.

a) $15sx^2 + sx - 2s = 0, s \in \mathbb{R} \setminus \{0\}$

b) $4sx^2 + 12sx + 9s = 0, s \in \mathbb{R} \setminus \{0\}$

Příklad 3.

a) $x \in \langle -4; 4 \rangle$

b) $x \in \langle -3; -1 \rangle$

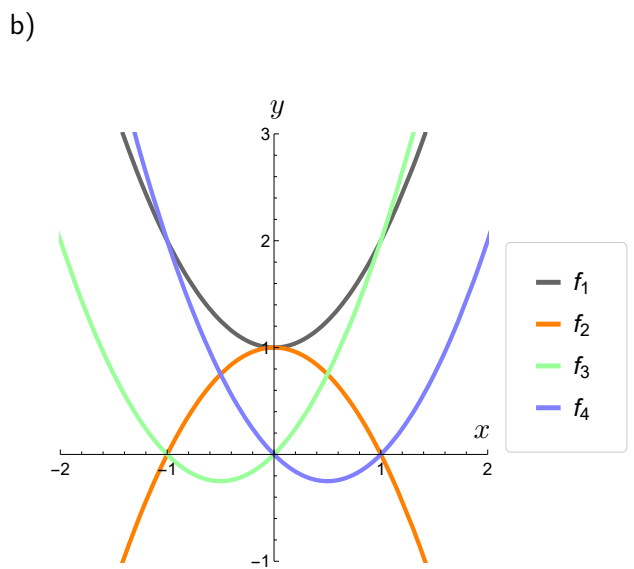
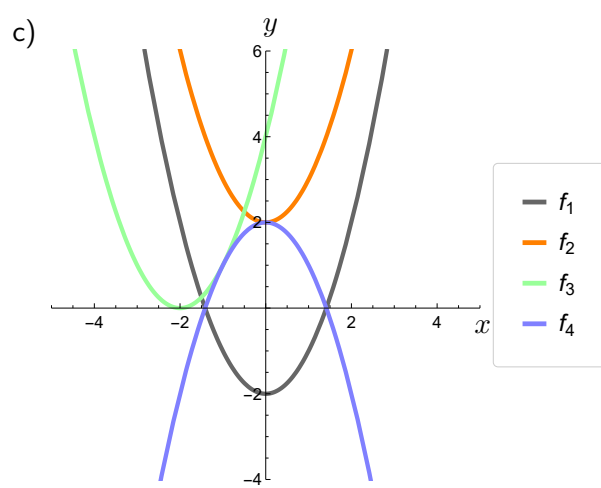
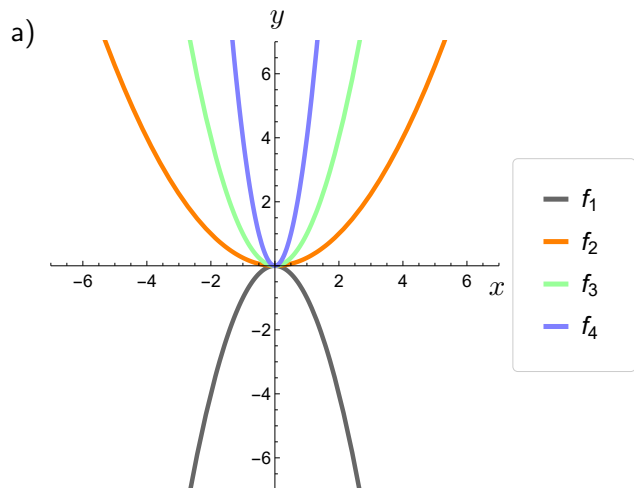
c) $x \in (-\infty; 0) \cup (3; +\infty)$

d) $x = 2$

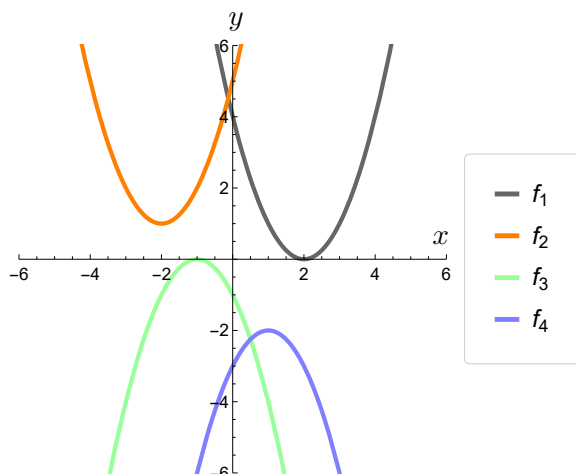
e) $x \in \left(-\infty; \frac{1-\sqrt{5}}{2}\right) \cup \left(\frac{1+\sqrt{5}}{2}; +\infty\right)$

f) $x \in \left(-\frac{3}{2}; 2\right)$

Příklad 4.

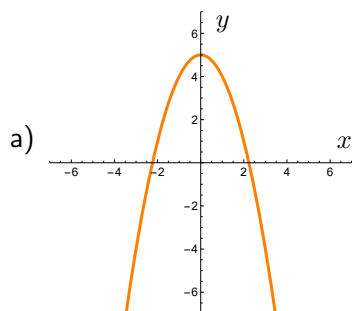


d) $f_1(x) = (x-2)^2$ $f_2(x) = (x+2)^2 + 1$
 $f_3(x) = -(x+1)^2$ $f_4(x) = -(x-1)^2 - 2$

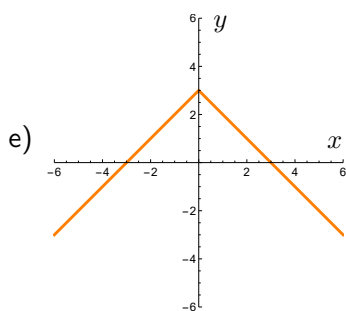


Příklad 5.

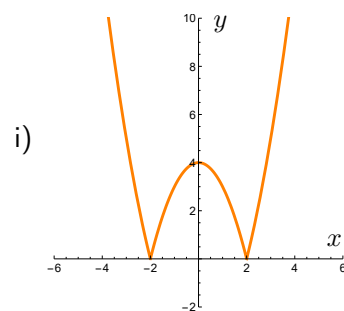
$$H(f) = (-\infty; 5)$$



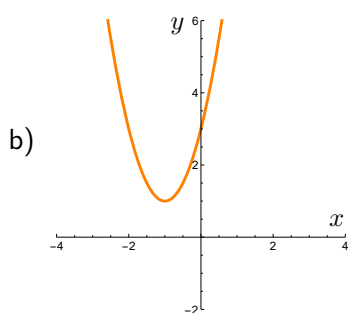
$$H(f) = (-\infty; 3)$$



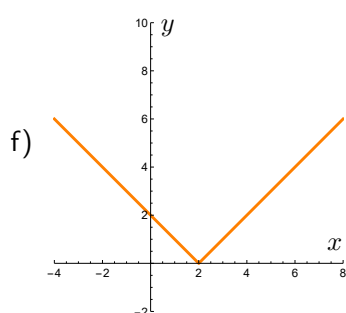
$$H(f) = \langle 0; +\infty$$



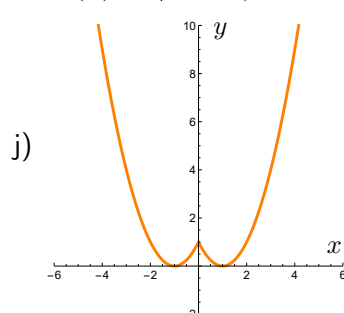
$$H(f) = \langle 1; +\infty$$



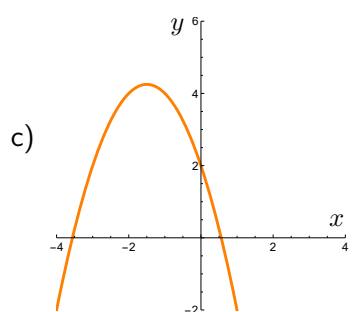
$$H(f) = \langle 0; +\infty$$



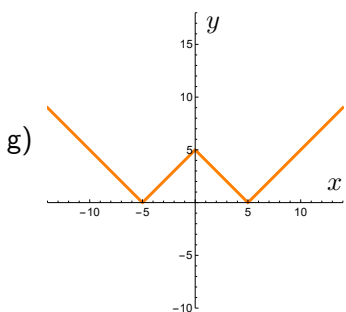
$$H(f) = \langle 0; +\infty$$



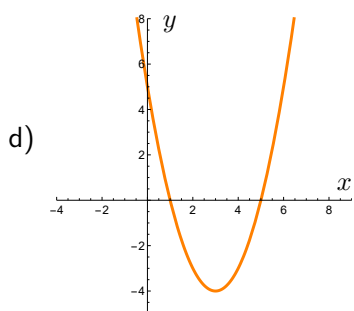
$$H(f) = (-\infty; \frac{17}{4})$$



$$H(f) = \langle 0; +\infty$$



$$H(f) = \langle -4; +\infty$$



$$H(f) = \langle 0; +\infty$$

