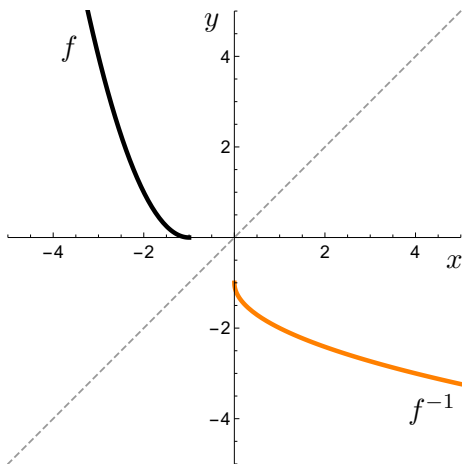
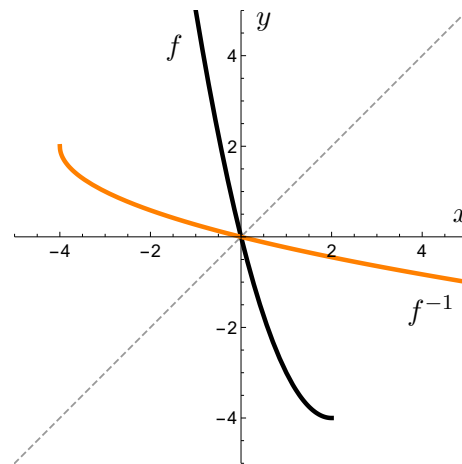


Výsledky:

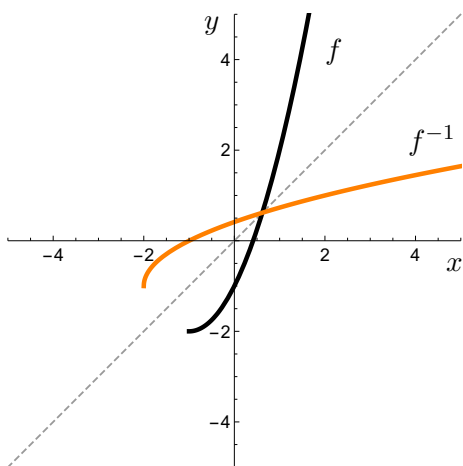
Příklad 1. a) $f^{-1}(x) = -\sqrt{x} - 1, \quad x \geq 0$



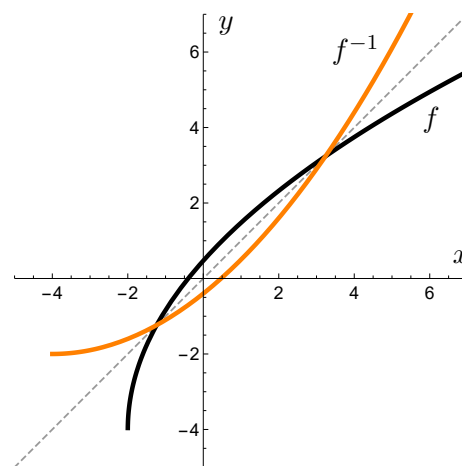
c) $f^{-1}(x) = -\sqrt{x+4} + 2, \quad x \geq -4$



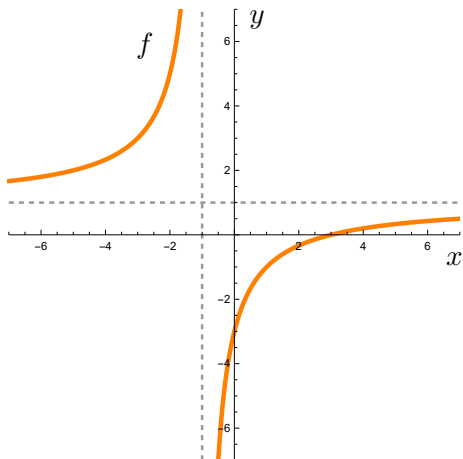
b) $f^{-1}(x) = \sqrt{x+2} - 1, \quad x \geq -2$



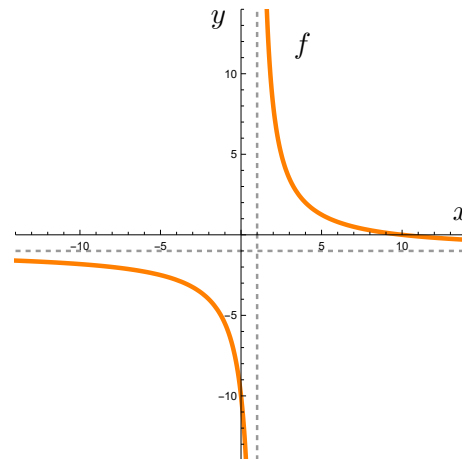
d) $f^{-1}(x) = \frac{1}{10}x^2 + \frac{4}{5}x - \frac{2}{5}, \quad x \geq -4$



Příklad 2. a) $D(f) = \mathbb{R} \setminus \{-1\}, \quad H(f) = \mathbb{R} \setminus \{1\}$

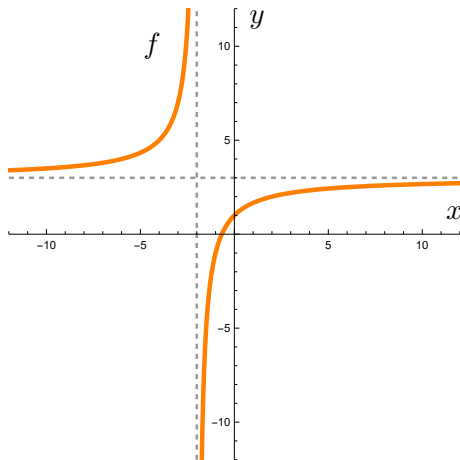


b) $D(f) = \mathbb{R} \setminus \{1\}, \quad H(f) = \mathbb{R} \setminus \{-1\}$

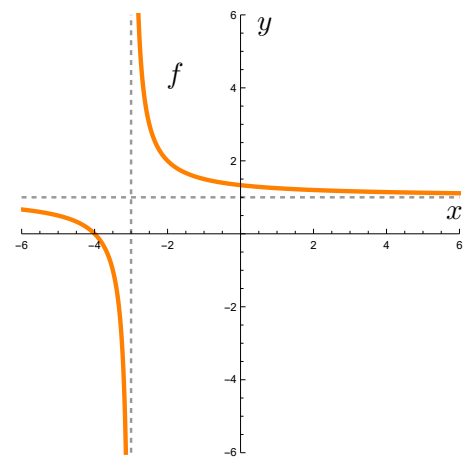


Výsledky:

Příklad 2. c) $D(f) = \mathbb{R} \setminus \{-2\}$, $H(f) = \mathbb{R} \setminus \{3\}$



d) $D(f) = \mathbb{R} \setminus \{-3\}$, $H(f) = \mathbb{R} \setminus \{1\}$



Příklad 3. a) $x \in \langle -2; 1 \rangle$

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

c) $x \in (-\infty; 0) \cup \langle \frac{1}{6}; +\infty \rangle$

d) $x \in (-\infty; -1) \cup (-1; -\frac{2}{3}) \cup \langle 0; +\infty \rangle$

Příklad 4. a) $g(x) = \frac{x-2}{2x-3}$

$D(g) = \mathbb{R} \setminus \{\frac{3}{2}; 2\}$, $H(g) = \mathbb{R} \setminus \{0; \frac{1}{2}\}$

b) $g(x) = \frac{x}{2x+1}$, $H(g) = \mathbb{R} \setminus \{0; 1; \frac{1}{2}\}$

$D(g) = \mathbb{R} \setminus \{-1; -\frac{1}{2}; 0\}$

c) $g(x) = x$

$D(g) = \mathbb{R} \setminus \{-1\}$, $H(g) = \mathbb{R} \setminus \{-1\}$

d) $g(x) = \frac{x}{x+1}$

$D(g) = \mathbb{R} \setminus \{-1; 0\}$, $H(g) = \mathbb{R} \setminus \{0; 1\}$