

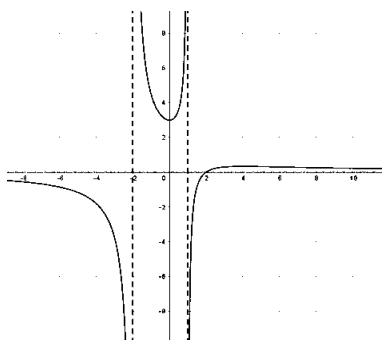
RACIONALNA FUNKCIJA

- Določi definicijsko območje racionalne funkcije $f(x) = \frac{x^3 - 2x^2}{x^3 - x^2 - x + 1}$. Določi tudi x in y koordinati točke $A(2, y)$ in $B(y, 1)$.
- Nariši graf racionalne funkcije:
 - $f(x) = \frac{3x-6}{x^2+x-2}$
 - $f(x) = \frac{2x^2-x-3}{x^2+x-2}$
 - $f(x) = 2 - \frac{x+1}{x^2}$
- Reši enačbo:
 - $\frac{2x}{x-1} - \frac{1}{x} = \frac{5x-1}{x^3-x}$
 - $\frac{-x^2-x}{2-x} - \frac{5}{x} = \frac{7}{x^2-2x}$
- Reši neenačbo:
 - $1 \leq \frac{1}{x^3+1}$
 - $\frac{x^2+2x-9}{x^2-4} > 2$

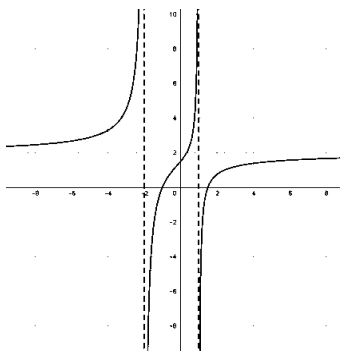
REŠITVE

1. $Df = \mathbb{R} - \{-1, 1\}$ $A(2, 0)$ $B(\frac{-1 \pm \sqrt{5}}{2}, 1)$

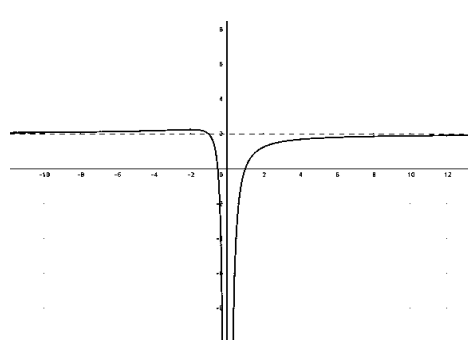
2. a)



b)



c)



3. a) $x = -2, x = \frac{1}{2}$ b) $x = 1, x = -3$

4. a) $x \in (-1, 0]$ b) $x \in (-2, 0) \cup (1, 2)$