

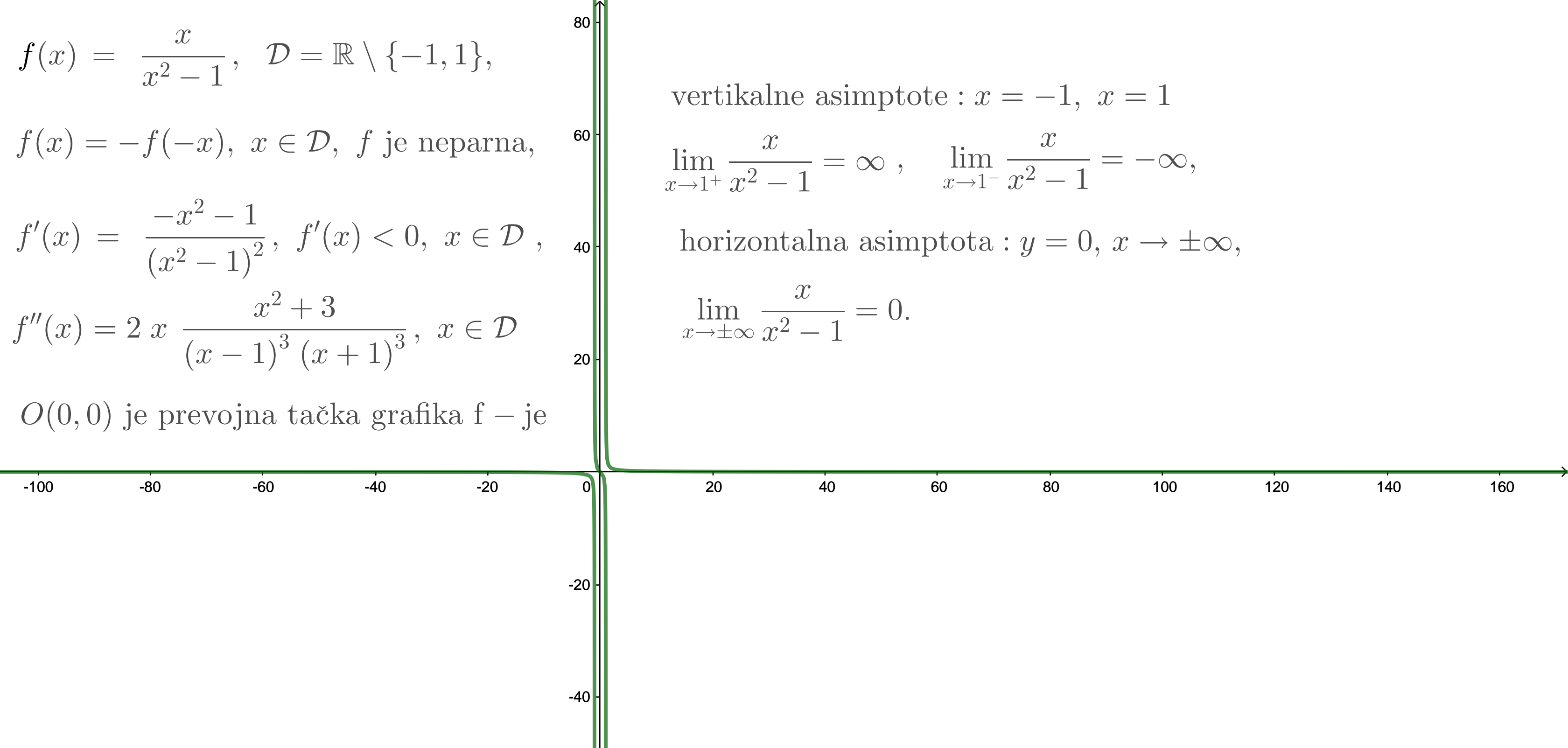
$f(x) = \frac{x}{x^2 - 1}, \quad \mathcal{D} = \mathbb{R} \setminus \{-1, 1\},$

$f(x) = -f(-x), \quad x \in \mathcal{D}, \quad f \text{ je neparna,}$

$f'(x) = \frac{-x^2 - 1}{(x^2 - 1)^2}, \quad f'(x) < 0, \quad x \in \mathcal{D},$

$f''(x) = 2x \frac{x^2 + 3}{(x - 1)^3 (x + 1)^3}, \quad x \in \mathcal{D}$

$O(0, 0)$ je prevojna tačka grafika f – je



vertikalne asimptote : $x = -1, \quad x = 1$

$\lim_{x \rightarrow 1^+} \frac{x}{x^2 - 1} = \infty, \quad \lim_{x \rightarrow 1^-} \frac{x}{x^2 - 1} = -\infty,$

horizontalna asimptota : $y = 0, \quad x \rightarrow \pm\infty,$

$\lim_{x \rightarrow \pm\infty} \frac{x}{x^2 - 1} = 0.$