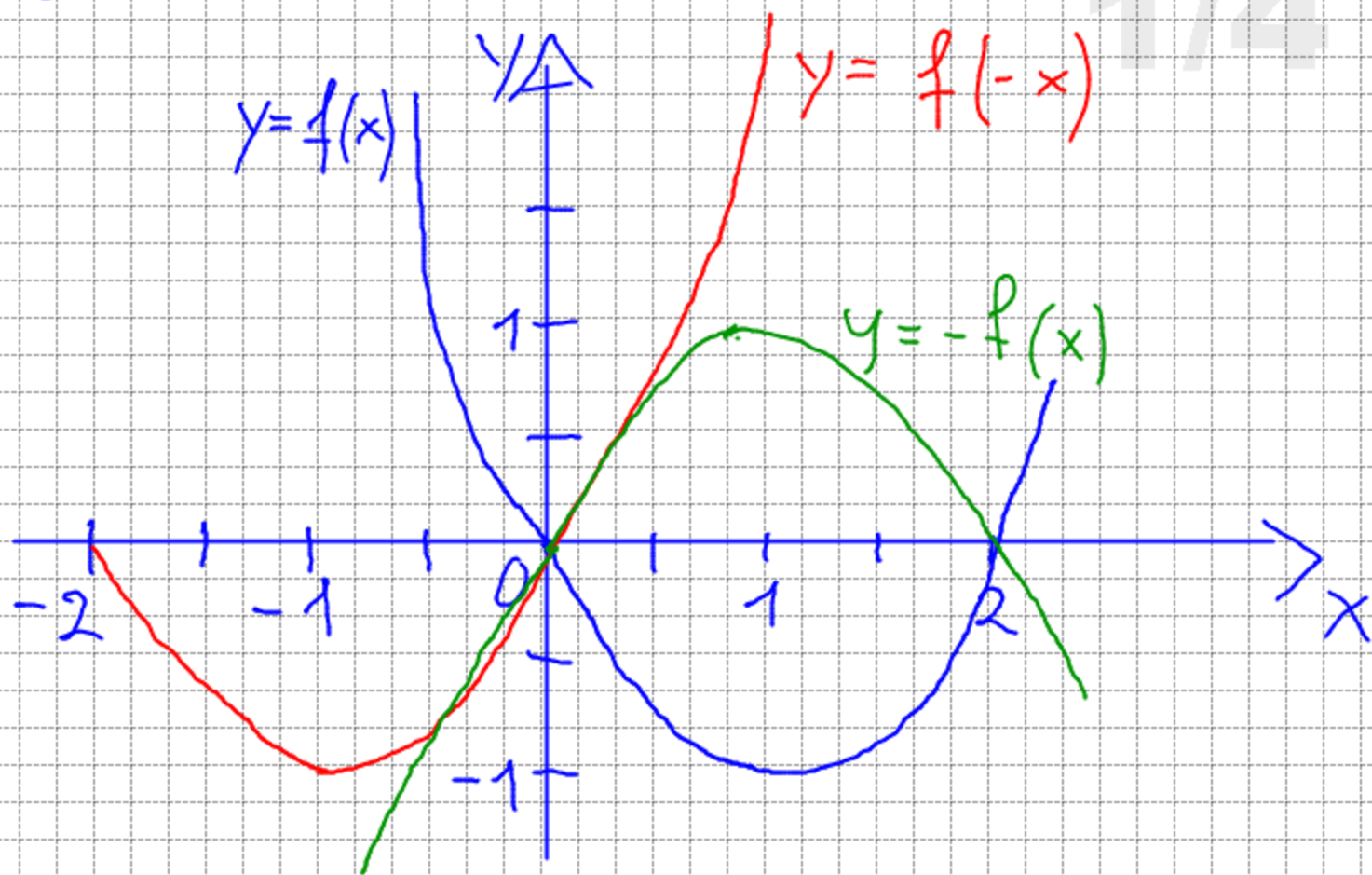


Paq. 258 n° 308

1/4



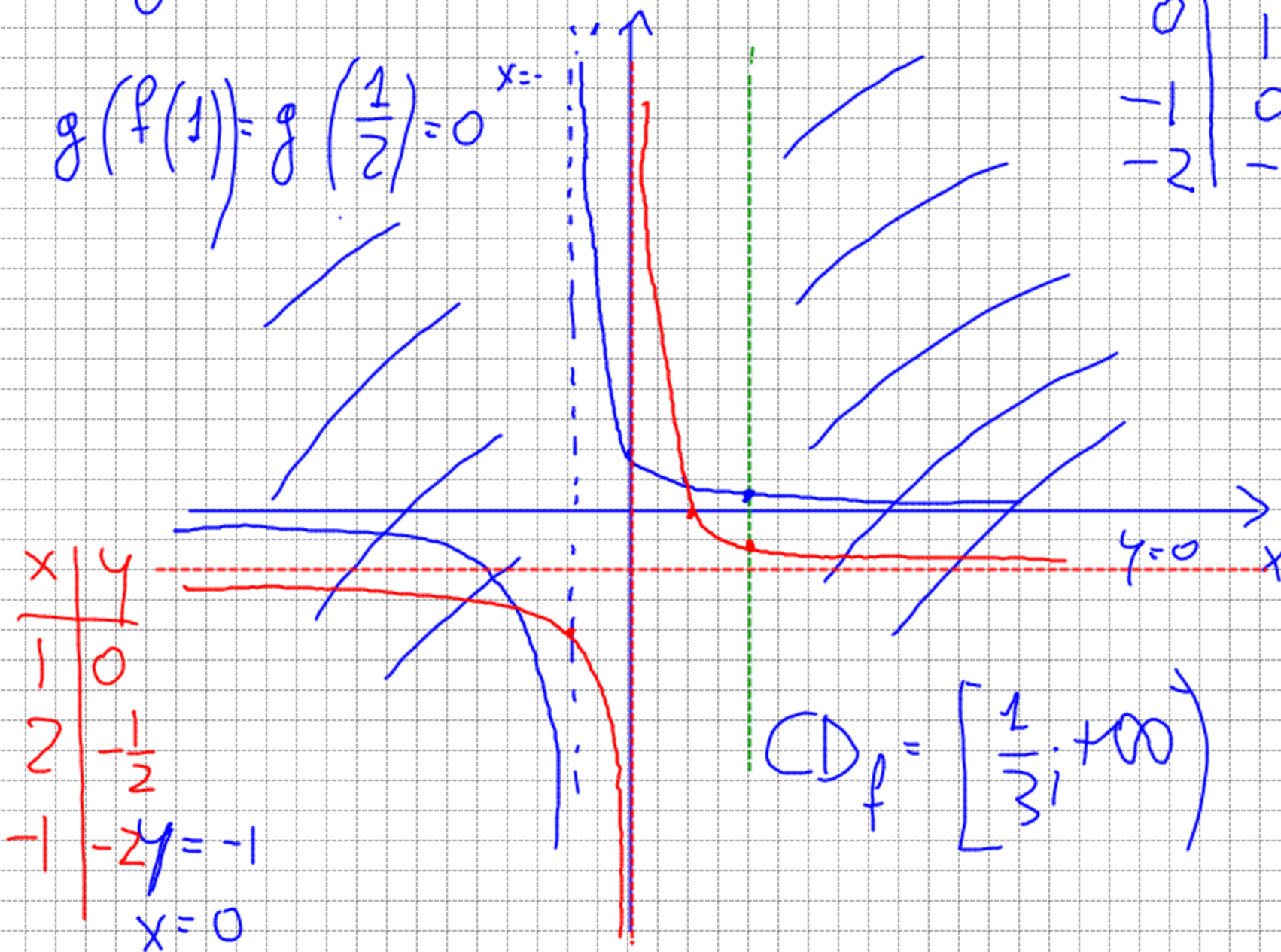
207 p252

$$f(x) = \frac{1}{x+1} \quad x \in (-1; 2]$$

$$g(x) = 2x - 1 \quad x \in \mathbb{R}$$

$$g(f(1)) = g\left(\frac{1}{2}\right) = 0$$

x	y
1	1/2
2	1/3
0	-1
-1	-2



$$CD_f = \left[\frac{1}{3}; +\infty\right)$$

$$x \rightarrow \frac{1}{x+1}$$

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

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

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

$$f^{-1}: \frac{1-x}{x}$$

$$D_{f^{-1}} = \{x \in \mathbb{R} \mid y \neq 0\} = (-\infty; 0) \cup (0; +\infty)$$

$$CD_{f^{-1}} = \dots$$

$$f^{-1}(f(1)) = 5g(f(x))$$

$$f^{-1}\left(\frac{1}{2}\right) = 5g\left(\frac{1}{x+1}\right)$$

$$1 = 5\left(2 \cdot \frac{1}{x+1} - 1\right)$$

$$1 = \frac{10}{x+1} - 5$$

$$\frac{10}{x+1} = 6$$

$$x+1 = \frac{10}{6} \quad x = \frac{2}{3}$$

3/4

$$\frac{1 - \frac{1}{2}}{\frac{1}{2}} = 2 - 1 = 1$$

LIM. FINITO - FINITO $\lim_{x \rightarrow x_0} f(x) = l$

$\forall \varepsilon > 0 \exists I_\varepsilon(x_0)$ e correspondentemente

$\exists I(x_0) / \forall x \in I(x_0) \wedge |f(x) - l| < \varepsilon$

si ha due

