

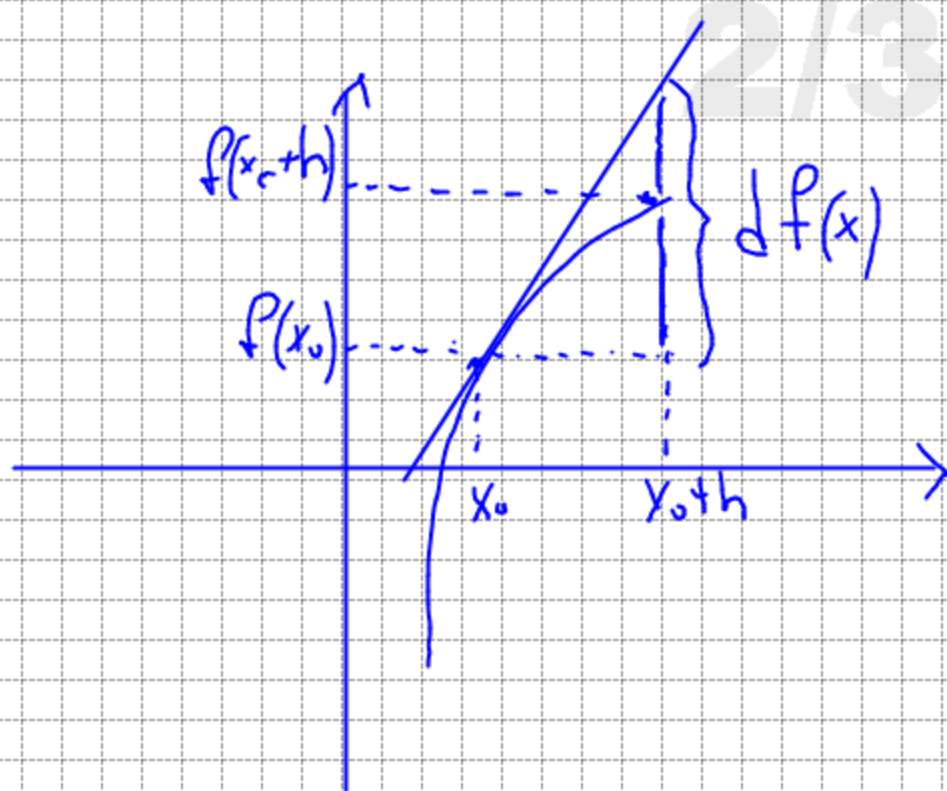
227

$$D \sqrt{1 + \sin 2x} = \frac{1}{2} \cdot \frac{1}{\sqrt{1 + \sin 2x}} \cdot D(1 + \sin 2x) =$$

$$= \frac{1}{2 \sqrt{1 + \sin 2x}} \cdot \cos 2x \cdot 2 = \frac{\cos 2x}{\sqrt{1 + \sin 2x}} =$$

$$= \frac{\cos 2x}{\sqrt{\sin^2 x + \cos^2 x + 2 \sin x \cos x}} = \frac{\cos 2x}{|\sin x + \cos x|}$$

$$df(x) = f'(x) \Delta x$$

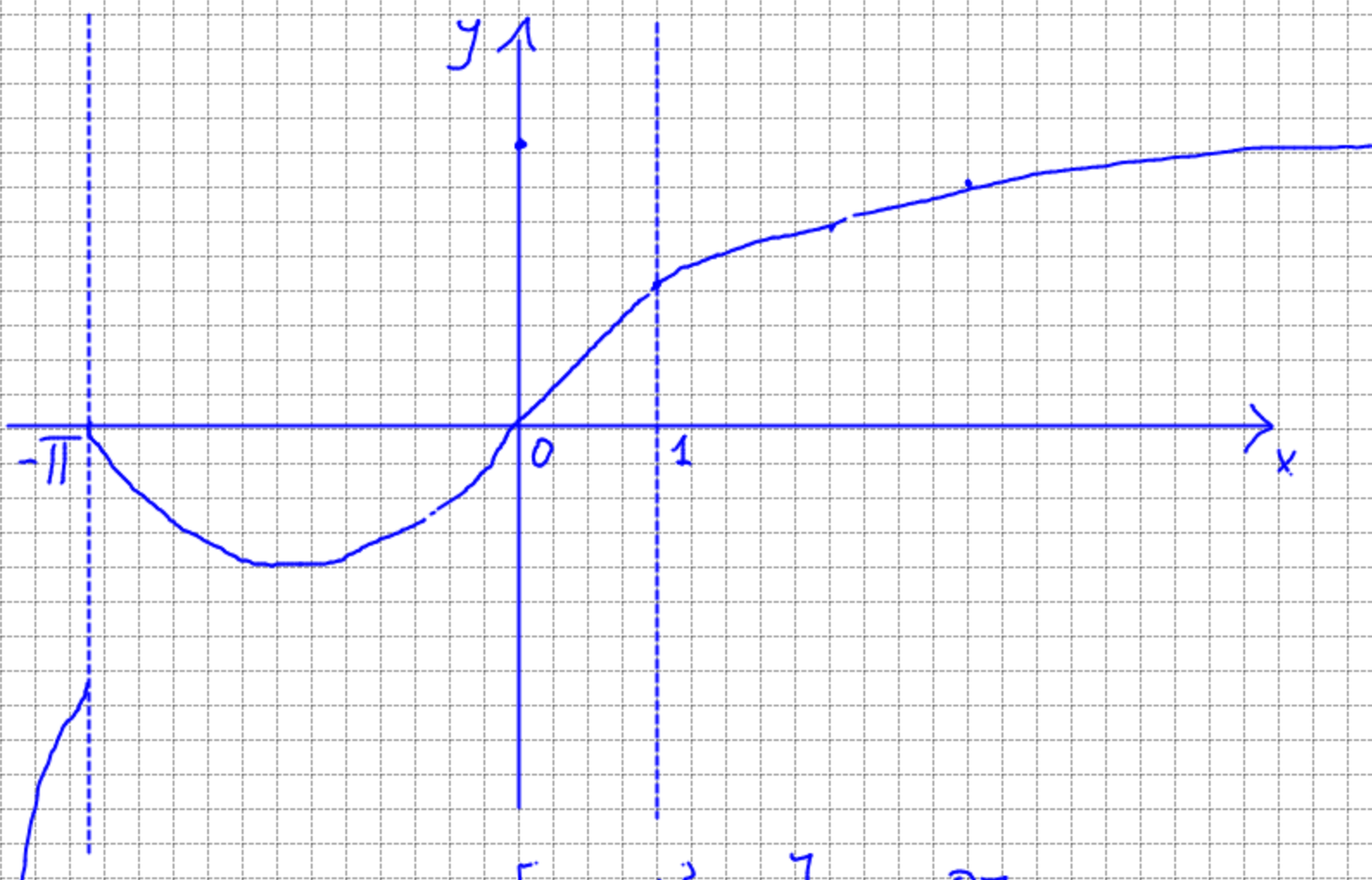


413 p79

$$\log 200,2 = \log(200 + 0,2) =$$

376 p74

$$f(x) = \begin{cases} -x^2 + 8 & x < -\pi \\ \sin x & -\pi \leq x \leq 0 \\ x & 0 < x < 1 \\ \sqrt{x} & x \geq 1 \end{cases}$$



$$f_{-}(-\pi) = \lim_{x \rightarrow -\pi} [-(-\pi)^2 + 8] = -1,87$$

$$f_{+}(-\pi) = \sin(-\pi) = 0$$

SALTO
 $\Delta y = 1,87$
 DISCONTINUITA'
 1ª ESPECIE

$f(x)$ É CONTINUA
 PER $\mathbb{R} - \{-\pi\}$

$$f'(x) = \begin{cases} -2x & \\ \cos x & \\ 1 & \\ \frac{1}{2\sqrt{x}} & \end{cases}$$

$$\begin{aligned} x &< -\pi \\ -\pi &\leq x \leq 0 \\ 0 &< x < 1 \\ x &\geq 1 \end{aligned}$$

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