

$$y = -\operatorname{ctg}\left(\frac{\pi}{3} - 5x\right) - 2$$

$$x_0 = \frac{\pi}{30}$$

$$y = f'(x_0)(x - x_0) + f(x_0)$$

$$y' = \frac{5}{\sin^2\left(\frac{\pi}{3} - 5x\right)}$$

$$y'\left(\frac{\pi}{30}\right) = \frac{5}{\sin^2\left(\frac{\pi}{3} - \frac{\pi}{6}\right)} = \frac{5}{\sin^2\left(\frac{\pi}{6}\right)} = \frac{5}{\frac{1}{4}} = 20$$

~~$$f(x_0) =$$~~

$$f\left(\frac{\pi}{30}\right) = -\operatorname{ctg}\left(\frac{\pi}{3} - \frac{\pi}{6}\right) - 2 = -\operatorname{ctg}\frac{\pi}{6} - 2 = -\sqrt{3} - 2$$

$$y_p \text{ e ruzunant: } y = 20\left(x - \frac{\pi}{30}\right) + \sqrt{3} - 2$$

~~Oronim: (9,6)~~

~~$$y = 2 - 2 = 0$$~~

~~$$2 \cdot \frac{x}{3} + y = 12$$~~

~~$$x = \frac{18 \cdot 12}{18 \cdot 12} = 12$$~~

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$$\left. \begin{aligned} \frac{3}{x} + \frac{2}{y} &= 6 \cdot 2 \\ \frac{2}{x} - \frac{3}{y} &= 2 \cdot 5 - 1 \cdot 3 \end{aligned} \right\} \Rightarrow$$