

$$\binom{*}{(1)} = \frac{1}{2}$$

$$f''(1) = \frac{1}{2}$$
 $f''(2) = \frac{22}{125}$
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M= max
$$|f''(x)| = |-2| = 2$$

 $x \in <0.25$

$$\frac{1}{10} > \frac{(2-0)^3}{42n^2} \cdot 2$$

Przyjmijany n=4

$$\int_{0}^{2} \frac{1}{x^{2} \cdot 1} dx \approx \frac{\frac{1}{2}}{2} \left[1 + \frac{1}{5} + 2 \cdot \left(\frac{9}{5} + \frac{1}{2} + \frac{9}{13} \right) \right] = ... \approx 1,1038$$

$$\int_{0}^{2} \frac{1}{x^{2}} = \operatorname{corctg}(x) \Big|_{0}^{2} = \operatorname{corctg}(2) - \operatorname{corctg}(0) = 1,1071$$

Rozwigzywanie nównań nóżniczkowych

$$y' = \frac{dy}{dx} = \lim_{\Delta x \to 0} \frac{f(x + \Delta x) - f(x)}{x + \Delta x - x}$$

