

Zadanie 8

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$$\operatorname{arctg}(x) = \frac{\pi}{2} - \operatorname{arctg}\left(\frac{1}{x}\right)$$

$$\operatorname{tg} \alpha = x \quad \operatorname{tg} \beta = \frac{1}{x}$$

$$\alpha + \beta + \frac{\pi}{2} = \pi \Rightarrow \operatorname{tg}^{-1} x + \operatorname{tg}^{-1} \frac{1}{x} = \frac{\pi}{2}$$

$$\operatorname{arctg}(x)$$

$$\frac{\pi}{2} - \operatorname{ATG}\left(\frac{1}{x}\right)$$

$$\text{Jeśli } x < 0 \quad -\frac{\pi}{2} - \operatorname{ATG}\left(\frac{1}{x}\right)$$

$$\text{Jeśli } |x| \leq 1 \quad \operatorname{arctg} \operatorname{ATG}(x)$$