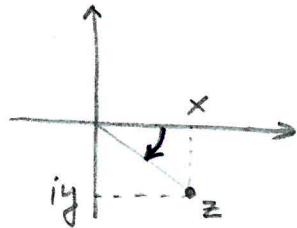


arg 0 není definován

$$z = x + iy$$

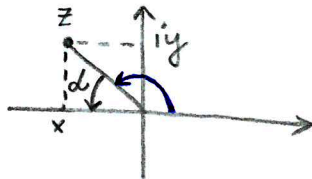
$$\text{arg } z = \begin{cases} \text{arctg } \frac{y}{x} & \text{pro } x > 0 & \text{arg } z \in \left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \\ \pi + \text{arctg } \frac{y}{x} & \text{pro } x < 0 \text{ a } y > 0 & \text{arg } z \in \left(\frac{\pi}{2}, \pi\right) \\ -\pi + \text{arctg } \frac{y}{x} & \text{pro } x < 0 \text{ a } y < 0 & \text{arg } z \in \left(-\pi, -\frac{\pi}{2}\right) \end{cases}$$

① :



$$\text{arg } z = \text{arctg } \frac{y}{x}$$

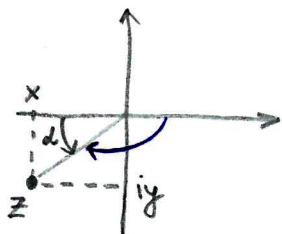
② :



$$\text{arg } z = \pi - \alpha = \pi - \text{arctg } \frac{y}{-x} = \pi + \text{arctg } \frac{y}{x}$$

arctg je liché funkce

③ :



$$\text{arg } z = -\pi + \alpha = -\pi + \text{arctg } \frac{-y}{-x} = -\pi + \text{arctg } \frac{y}{x}$$