

Vzorce:

$$e^0 = 1 \quad \ln 1 = 0 \quad e^\infty = \infty \quad e^{-\infty} = 0 \quad \ln(0^+) = -\infty \quad \ln(\infty) = \infty \quad \lim_{x \rightarrow 0^+} x^n \cdot \ln x = 0$$

$\log_a x = y$	$\ln x = y$
$x = a^y$	$x = e^y$

$$\text{Kvadratická rovnice } ax^2 + bx + c = 0 \quad x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\text{Úprava zlomku: } \frac{a}{x^n} = a \cdot x^{-n} \quad \text{Úprava odmocniny: } \sqrt[n]{x^m} = x^{\frac{m}{n}}$$

Operace s nekonečnem

$$a \pm \infty = \pm \infty \quad a \in \mathbb{R} \quad \infty + \infty = \infty \quad -\infty - \infty = -\infty$$

$$\text{Povolené: } a \cdot \infty = \pm \infty \quad a \cdot (-\infty) = \pm \infty \quad a \in \mathbb{R}^* \text{ (tj. } a \text{ lze i } \infty) \quad \infty \cdot \infty = \infty$$

$$\frac{a}{\infty} = 0 \quad a \in \mathbb{R} \quad \frac{a}{0} = \pm \infty \quad a \in \mathbb{R}^*$$

$$\text{Neurčitě výrazy: } \infty - \infty \quad 0 \cdot \infty \quad \frac{\infty}{\infty} \quad \frac{0}{0} \quad 1^\infty \quad 0^0 \quad \infty^0 \quad 0^\infty$$