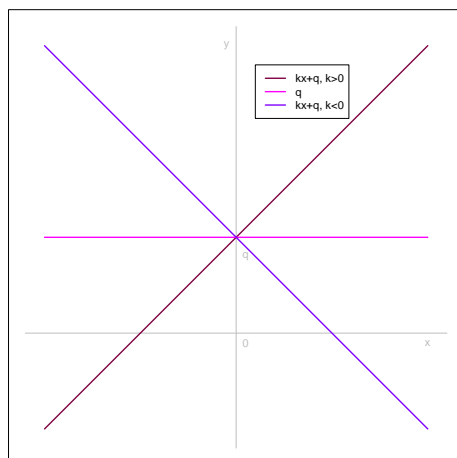


• LINEÁRNÍ FUNKCE

$$f(x) = kx + q$$

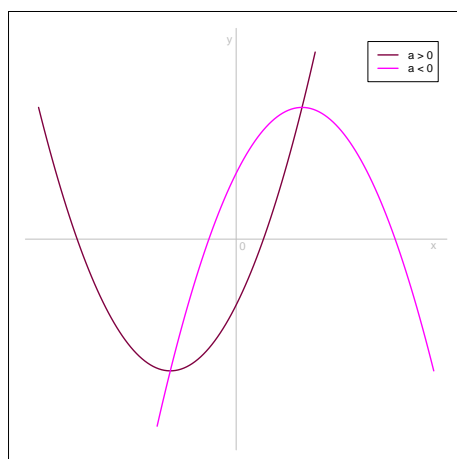
$$D(f) = \mathbb{R}$$

$$H(f) = \mathbb{R}$$

**• KVADRATICKÁ FUNKCE**

$$f(x) = ax^2 + bx + c$$

$$D(f) = \mathbb{R}$$

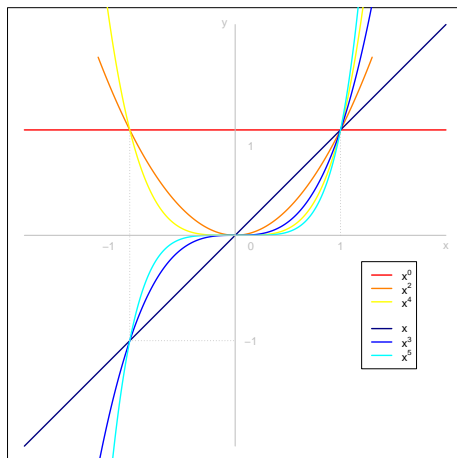


• MOCNINNÁ FUNKCE

$$f(x) = x^n \quad n \in \mathbb{N}$$

$$n \text{ sudé} \quad D(f) = \mathbb{R}, H(f) = [0, +\infty)$$

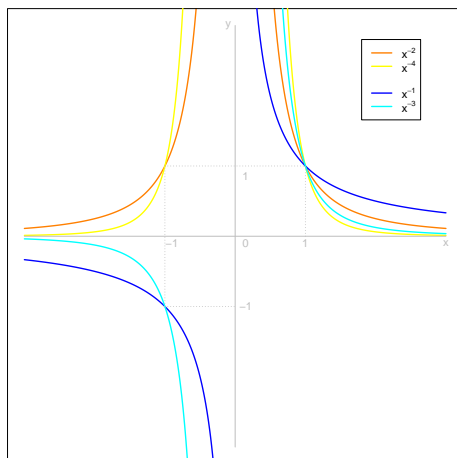
$$n \text{ liché} \quad D(f) = \mathbb{R}, H(f) = \mathbb{R}$$



$$f(x) = x^{-n} \quad n \in \mathbb{N}$$

$$n \text{ sudé} \quad D(f) = \mathbb{R} \setminus \{0\}, H(f) = (0, +\infty)$$

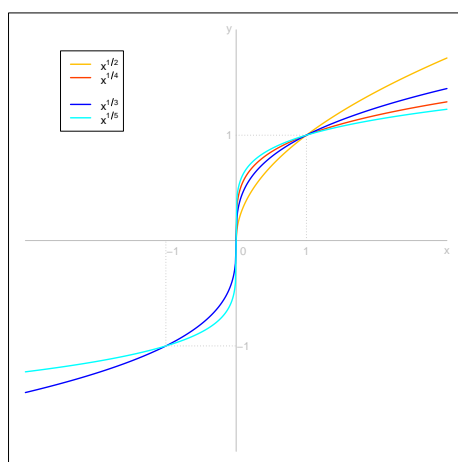
$$n \text{ liché} \quad D(f) = \mathbb{R} \setminus \{0\}, H(f) = \mathbb{R} \setminus \{0\}$$



$$f(x) = \sqrt[n]{x} \quad n \in \mathbb{N}$$

$$n \text{ sudé} \quad D(f) = [0, +\infty), H(f) = [0, +\infty)$$

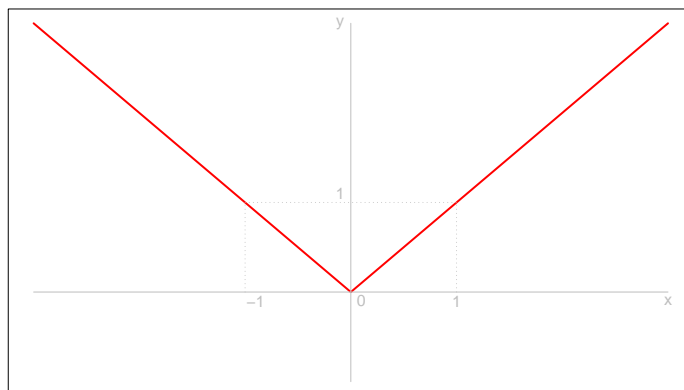
$$n \text{ liché} \quad D(f) = \mathbb{R}, H(f) = \mathbb{R}$$



• ABSOLUTNÍ HODNOTA

$$f(x) = |x|$$

$$D(f) = \mathbb{R}, H(f) = [0, +\infty)$$



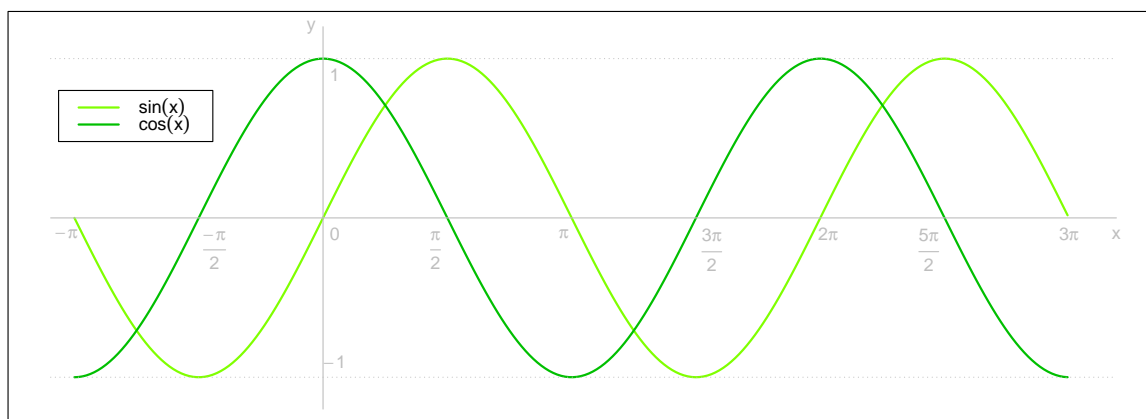
• GONIOMETRICKÉ FUNKCE

$$f(x) = \sin(x)$$

$$D(f) = \mathbb{R}, H(f) = [-1, 1]$$

$$f(x) = \cos(x)$$

$$D(f) = \mathbb{R}, H(f) = [-1, 1]$$

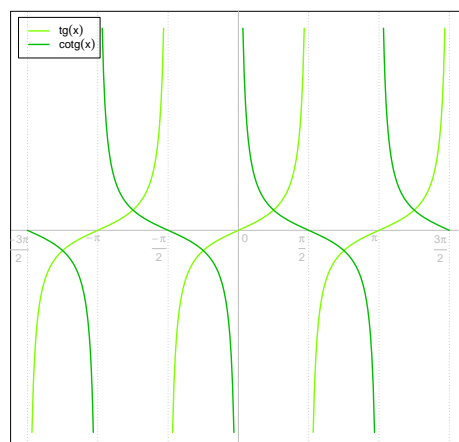


$$f(x) = \operatorname{tg}(x)$$

$$D(f) = \mathbb{R} \setminus \{(2k+1)\frac{\pi}{2}, k \in \mathbb{Z}\}, H(f) = \mathbb{R}$$

$$f(x) = \operatorname{cotg}(x)$$

$$D(f) = \mathbb{R} \setminus \{k\pi, k \in \mathbb{Z}\}, H(f) = [-1, 1]$$



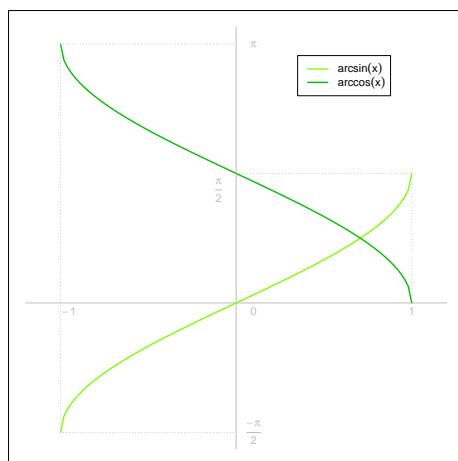
• **CYKLOMETRICKÉ FUNKCE**

$$f(x) = \arcsin(x)$$

$$D(f) = [-1, 1], H(f) = \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$$

$$f(x) = \arccos(x)$$

$$D(f) = [-1, 1], H(f) = [0, \pi]$$

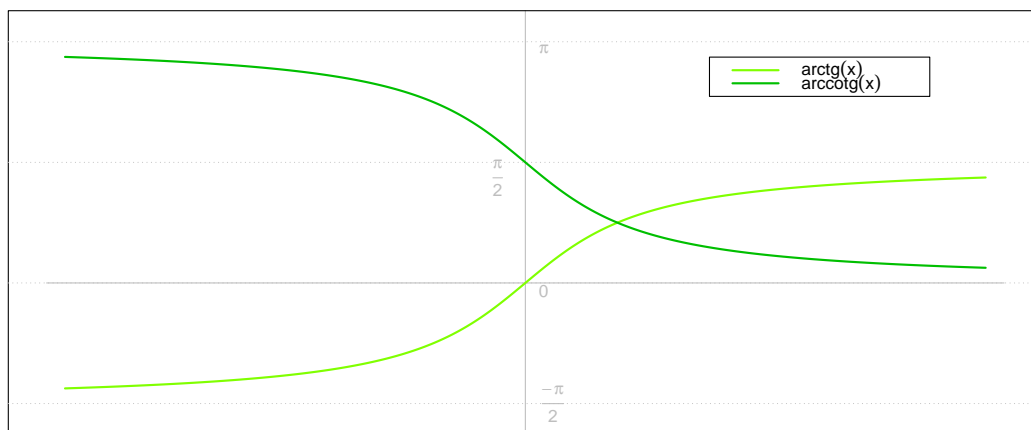


$$f(x) = \operatorname{arctg}(x)$$

$$D(f) = \mathbb{R}, H(f) = \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$$

$$f(x) = \operatorname{arccotg}(x)$$

$$D(f) = \mathbb{R}, H(f) = (0, \pi)$$



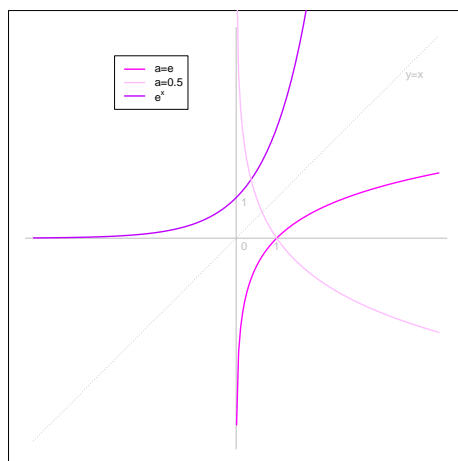
• LOGARITMICKÁ A EXPONENCIÁLNÍ FUNKCE

$$f(x) = \log_a x \quad a > 0, a \neq 1$$

$$D(f) = (0, +\infty), H(f) = \mathbb{R}$$

$$f(x) = e^x$$

$$D(f) = \mathbb{R}, H(f) = (0, +\infty)$$



$$f(x) = a^x \quad a > 0, a \neq 1$$

$$D(f) = \mathbb{R}, H(f) = (0, +\infty)$$

