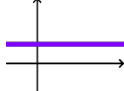
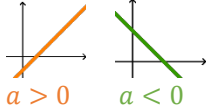
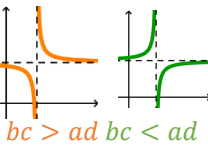
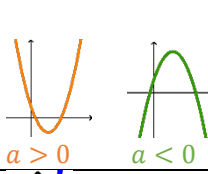
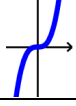
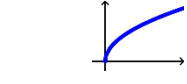
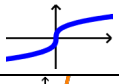
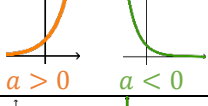
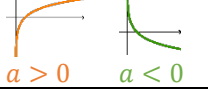
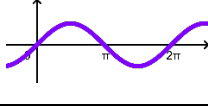
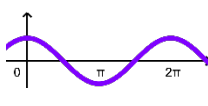
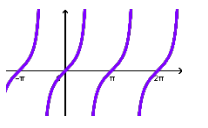
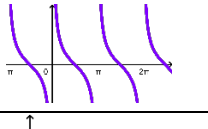
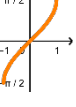
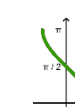
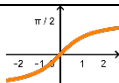
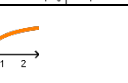


ZOPAKUJ SI FUNKCE

Funkce	Předpis	Definiční obor	Obor hodnot	Graf	Inverzní funkce
Absolutní	$f: y = b;$ $b \in \mathbb{R}$	$D_f = \mathbb{R}$	$H_f = b$		není
Lineární	$f: y = ax + b;$ $a, b \in \mathbb{R}; a \neq 0$	$D_f = \mathbb{R}$	$H_f = \mathbb{R}$		lineární
Lineární lomená	$f: y = \frac{ax + b}{cx + d};$ $a, b, c, d \in \mathbb{R};$ $c \neq 0; ad \neq bc$	$D_f = \mathbb{R} \setminus \left\{ -\frac{d}{c} \right\}$	$H_f = \mathbb{R} \setminus \left\{ \frac{a}{c} \right\}$		lineární lomená
Kvadratická	$y = ax^2 + bx + c;$ $a, b, c \in \mathbb{R}; a \neq 0$ Vrchol paraboly: $V[V_x; V_y]; V_x = \frac{-b}{2a}$	$D_f = \mathbb{R}$	$H_f = \langle V_y; \infty \rangle$ pro $a > 0;$ $H_f = \langle -\infty; V_y \rangle$ pro $a < 0;$		druhá odmocnina buď pro $x \in \langle V_x; \infty \rangle$ nebo pro $x \in \langle -\infty; V_x \rangle$
Kubická	$f: y = ax^3;$ $a \in \mathbb{R}; a \neq 0$	$D_f = \mathbb{R}$	$H_f = \mathbb{R}$		třetí odmocnina
Druhá odmocnina	$f: y = \sqrt{x}$	$D_f = \langle 0; \infty \rangle$	$H_f = \langle 0; \infty \rangle$		druhá mocnina (kvadratická funkce)
Třetí odmocnina	$f: y = \sqrt[3]{x}$	$D_f = \mathbb{R}$	$H_f = \mathbb{R}$		třetí mocnina (kubická funkce)
Exponenciální	$f: y = a^x$	$D_f = \mathbb{R}$	$H_f = (0; \infty)$		logaritmická
Logaritmická	$f: y = \log_a x$	$D_f = (0; \infty)$	$H_f = \mathbb{R}$		exponenciální
Sinus	$f: y = \sin x$	$D_f = \mathbb{R}$	$H_f = \langle -1; 1 \rangle$		$\arcsin x$ např. pro $x \in \langle -\frac{\pi}{2}; \frac{\pi}{2} \rangle$
Kosinus	$f: y = \cos x$	$D_f = \mathbb{R}$	$H_f = \langle -1; 1 \rangle$		$\arccos x$ např. pro $x \in \langle 0; \pi \rangle$
Tangens	$f: y = \operatorname{tg} x$	$D_f = \mathbb{R} \setminus \left\{ \frac{\pi}{2} + \pi k; k \in \mathbb{Z} \right\}$	$H_f = \mathbb{R}$		$\operatorname{arctg} x$ např. pro $x \in \left(-\frac{\pi}{2}; \frac{\pi}{2} \right)$
Kotangens	$f: y = \operatorname{cotg} x$	$D_f = \mathbb{R} \setminus \{ \pi k; k \in \mathbb{Z} \}$	$H_f = \mathbb{R}$		$\operatorname{arccotg} x$ např. pro $x \in (0; \pi)$
Arkus sinus	$f: y = \arcsin x$	$D_f = \langle -1; 1 \rangle$	$H_f = \langle -\frac{\pi}{2}; \frac{\pi}{2} \rangle$		Sinus
Arkus kosinus	$f: y = \arccos x$	$D_f = \langle -1; 1 \rangle$	$H_f = \langle 0; \pi \rangle$		Kosinus
Arkus tangens	$f: y = \operatorname{arctg} x$	$D_f = \mathbb{R}$	$H_f = \left(-\frac{\pi}{2}; \frac{\pi}{2} \right)$		Tangens
Arkus kotangens	$f: y = \operatorname{arccot} x$	$D_f = \mathbb{R}$	$H_f = (0; \pi)$		Kotangens