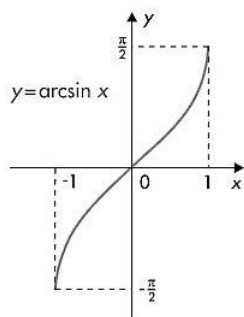# CYKLOMETRICKÉ FUNKCE

ARKUSSINUS

$f: y = \sin x \qquad \longrightarrow \qquad f^{-1}: y = \arcsin x$

$D(f) = \langle -\frac{\pi}{2}, \frac{\pi}{2} \rangle \qquad D(f^{-1}) = \langle -1, 1 \rangle$

$H(f) = \langle -1, 1 \rangle \qquad H(f^{-1}) = \langle -\frac{\pi}{2}, \frac{\pi}{2} \rangle$
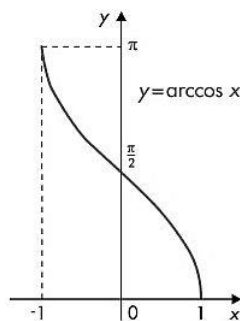

ARKUSKOSINUS

$f: y = \cos x \qquad \longrightarrow \qquad f^{-1}: y = \arccos x$

$D(f) = \langle 0, \pi \rangle \qquad D(f^{-1}) = \langle -1, 1 \rangle$

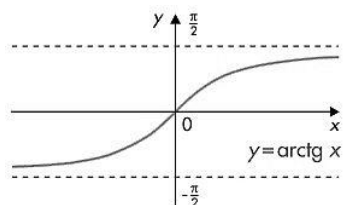$H(f) = \langle -1, 1 \rangle \qquad H(f^{-1}) = \langle 0, \pi \rangle$

ARKUSTANGENS

$f: y = \tg x \qquad \longrightarrow \qquad f^{-1}: y = \arctg x$

$D(f) = \left(-\frac{\pi}{2}, \frac{\pi}{2} \right) \qquad D(f^{-1}) = \mathbf{R}$

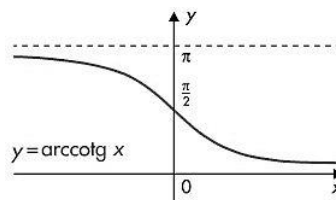$H(f) = \mathbf{R} \qquad H(f^{-1}) = \left(-\frac{\pi}{2}, \frac{\pi}{2} \right)$

ARKUSKOTANGENS

$f: y = \cotg x \qquad \longrightarrow \qquad f^{-1}: y = \arccotg x$

$D(f) = (0, \pi) \qquad D(f^{-1}) = \mathbf{R}$

$H(f) = \mathbf{R} \qquad H(f^{-1}) = (0, \pi)$

Tabulky významných hodnot:

	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
$\arcsin x$	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
$\arccos x$	$\frac{\pi}{2}$	$\frac{\pi}{3}$	$\frac{\pi}{4}$	$\frac{\pi}{6}$	0

	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$
$\arctg x$	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$
$\arccotg x$	$\frac{\pi}{2}$	$\frac{\pi}{3}$	$\frac{\pi}{4}$	$\frac{\pi}{6}$