



RIGHT TRIANGLE DEFINITION

... θ . L^D

UNIT CIRCLE DEFINITION

TRIG FUNCTIONS DOMAIN

$\sin^{-1} : [-1, 1] \rightarrow \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$

$\cos^{-1} : [-1, 1] \rightarrow [0, \pi]$

$\tan^{-1} : \mathbb{R} \rightarrow \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$

$\cot^{-1} : \mathbb{R} \rightarrow (0, \pi)$

$\sec^{-1} : \mathbb{R} \rightarrow [0, \pi] \setminus \left\{\frac{\pi}{2}\right\}$

$\csc^{-1} : \mathbb{R} \rightarrow \left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \setminus \{0\}$