

INVERSE TRIGONOMETRIC FUNCTIONS REFERENCE

$$y = \arcsin(x)$$

Domain: $[-1, 1]$ Range: $[-\pi/2, \pi/2]$

$$y = \arccos(x)$$

Domain: $[-1, 1]$ Range: $[0, \pi]$

$$y = \arctan(x)$$

Domain: $(-\infty, \infty)$ Range: $(-\pi/2, \pi/2)$

$$y = \operatorname{arccot}(x)$$

Domain: $(-\infty, \infty)$ Range: $(0, \pi)$

Inverse Sine	$\sin^{-1}(x) / \arcsin(x)$	$-1 \leq x \leq 1$	$-\pi/2 \leq y \leq \pi/2$
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Inverse Cosine	$\cos^{-1}(x) / \arccos(x)$	$-1 \leq x \leq 1$	$0 \leq y \leq \pi$
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Inverse Tangent	$\tan^{-1}(x) / \arctan(x)$	All Real Numbers	$-\pi/2 < y < \pi/2$
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