



INVERSE TRIG FUNCTIONS

$\arcsin(x) = \sin^{-1}(x)$

$\arccos(x) = \cos^{-1}(x)$

$\arctan(x) = \tan^{-1}(x)$

TRIG(INV. TRIG(x))



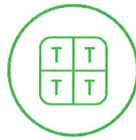
$\arcsin\left(\frac{O}{H}\right) = \theta$

$\arccos\left(\frac{A}{H}\right) = \theta$

$\arctan\left(\frac{O}{A}\right) = \theta$

• Trig (angle)
= length ratio

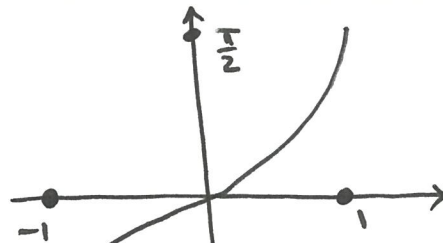
• Angle
= inv trig (length ratio)



1	2	3	4	5
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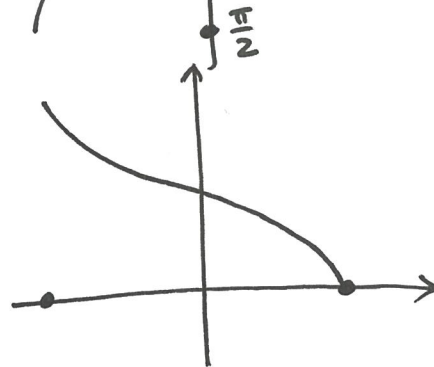
Sketch the graphs of

$y = \arcsin(x)$, $y = \arccos(x)$, $y = \arctan(x)$



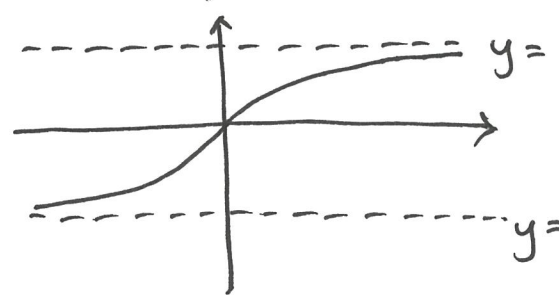
$y = \arcsin x$

- Domain
- Range



$y = \arccos x$

- Domain
- Range



$y = \arctan(x)$

- Domain
- Range