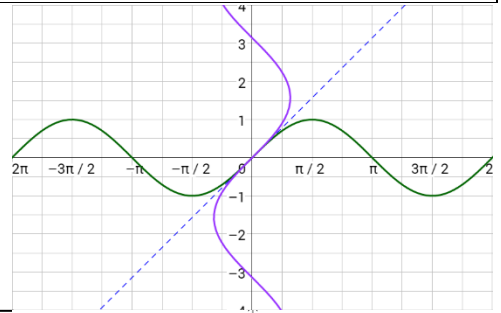


Precalculus

4-08 Inverse Trigonometric Functions

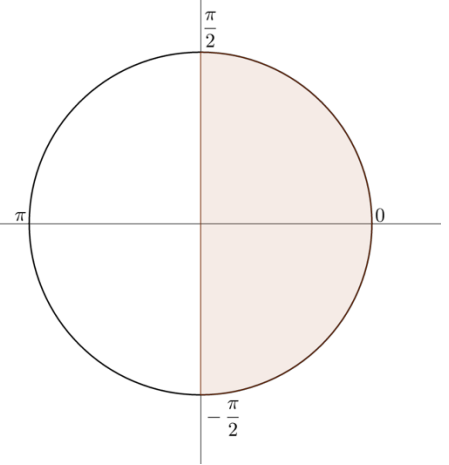
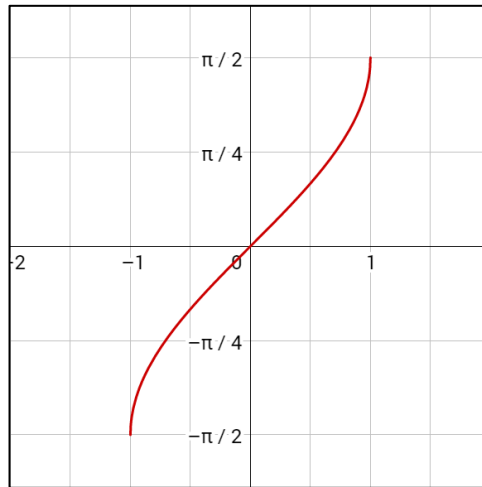
- Inverses switch _____
- _____ graph over $y = x$
- $y = \sin x \leftrightarrow x = \sin^{-1} y$
- Inverse trig functions give the _____



Inverse Sine

- $y = \sin^{-1} x$
- $y = \arcsin x$
- Domain: _____
- Range: _____

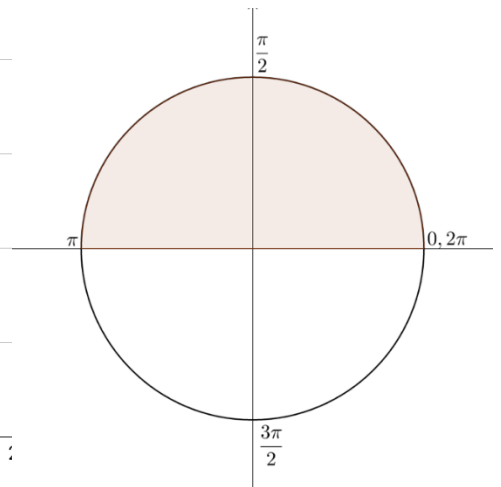
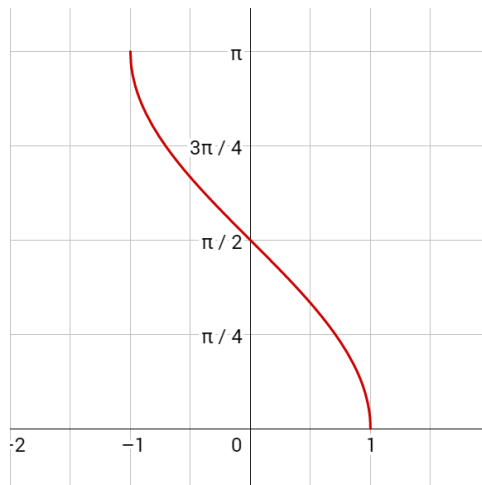
$\arcsin(-1)$



Inverse Cosine

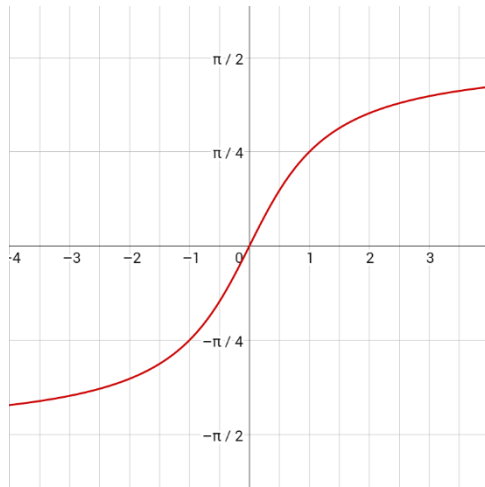
- $y = \cos^{-1} x$
- $y = \arccos x$
- Domain: _____
- Range: _____

$\arccos \frac{1}{2}$

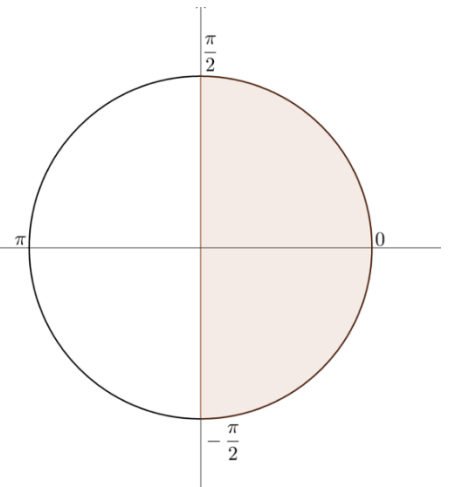


Inverse Tangent

- $y = \tan^{-1} x$
- $y = \arctan x$
- Domain: _____
- Range: _____



Name: _____



Evaluate

$$\sin^{-1}\left(\frac{1}{2}\right)$$

$$\arcsin \sqrt{3}$$

$$\cos^{-1}\frac{\sqrt{3}}{2}$$

$$\arctan \frac{\sqrt{3}}{3}$$