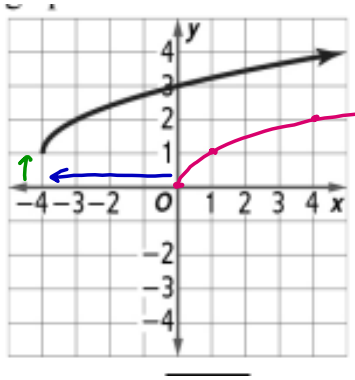


Write the function that represents the graph.

parent function $y = \sqrt{x}$

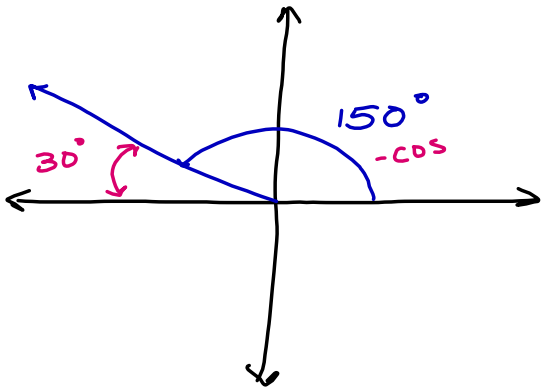
$y = \sqrt{x+4} + 1$

State the Domain and Range:

$D: \{x \mid x \geq -4\}$

$R: \{f(x) \mid f(x) \geq 1\}$

$\cos(150°)$



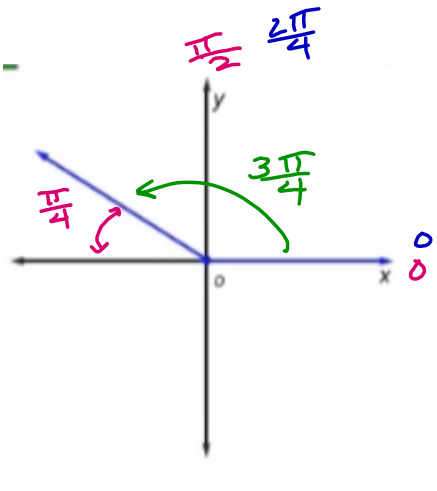
$\cos(150°) = -\cos(30°)$

$\cos(150°) = -\frac{\sqrt{3}}{2}$

$$\tan\left(\frac{3\pi}{4}\right)$$

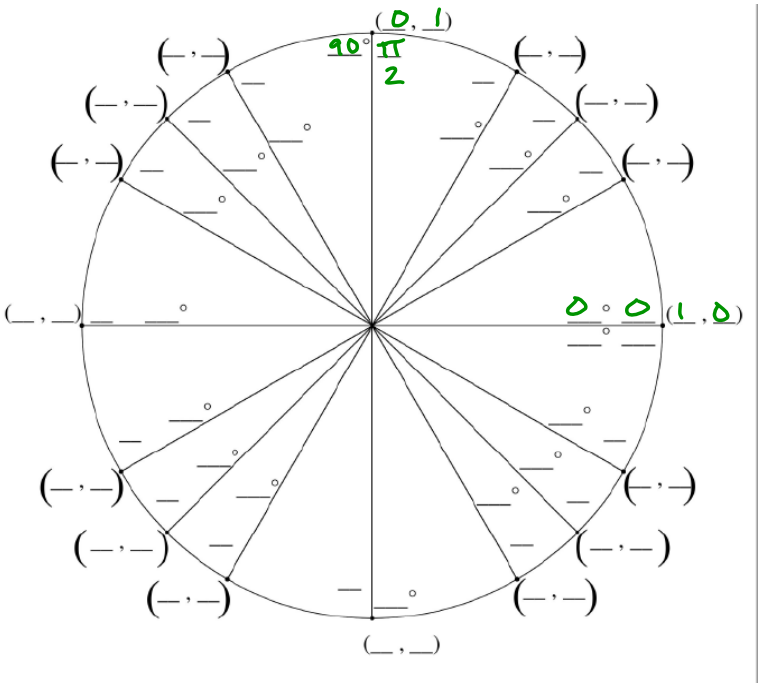
$\tan\left(\frac{3\pi}{4}\right) = -\tan\left(\frac{\pi}{4}\right)$

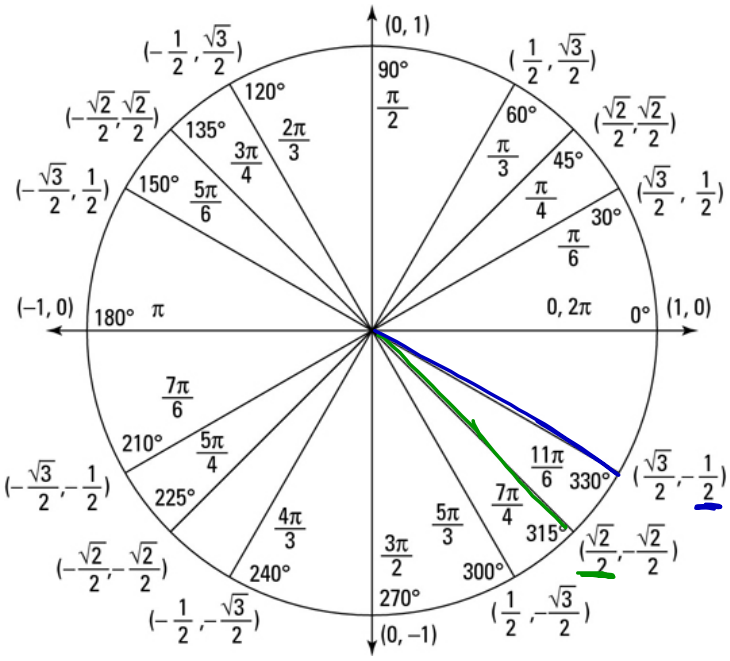
$= -1$



Use what you know so far, and your paper plate to fill in the unit circle:

Compare Trig Values With Coordinates





$(\cos\theta, \sin\theta)$

$\tan\theta = \frac{\sin\theta}{\cos\theta}$

$\cot\theta = \frac{\cos\theta}{\sin\theta}$

$\csc\theta = \frac{1}{\sin\theta}$

$\sec\theta = \frac{1}{\cos\theta}$

Use the Unit Circle to find the exact value of each function:

$0° \to 360°$

$\sin(-390°)$

$-390 + 360 = -30$

$-30 + 360 = 330°$

$\sin 330° = -\frac{1}{2}$

$0 \to 2\pi$ ← $\frac{8\pi}{4}$

$\cos\left(\frac{15\pi}{4}\right)$

$\frac{15\pi}{4} - \frac{8\pi}{4} = \frac{7\pi}{4}$

$\cos\left(\frac{15\pi}{4}\right) = \frac{\sqrt{2}}{2}$