

Student Name: _____

Score: _____

Unit circle to find the trigonometric ratio

Sheet 1

Let $\sec \theta = \sqrt{2}$, $\frac{3\pi}{2} < \theta < 2\pi$

Find the value of a given trigonometric ratio using unit circles:

$\cos \theta =$

$\tan \theta =$

$\sin \theta =$

$\csc \theta =$

$\cot \theta =$

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Answer key

Unit circle to find the trigonometric ratio

Sheet 1

$$\text{Let } \sec \theta = \sqrt{2}, \quad \frac{3\pi}{2} < \theta < 2\pi$$

Find the value of a given trigonometric ratio using unit circles:

$$\cos \theta = \frac{1}{\sqrt{2}} \text{ or } \frac{\sqrt{2}}{2}$$

$$\tan \theta = -1$$

$$\sin \theta = -\frac{1}{\sqrt{2}} \text{ or } -\frac{\sqrt{2}}{2}$$

$$\csc \theta = -\sqrt{2}$$

$$\cot \theta = -1$$