

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Unit circle to find the trigonometric ratio**

$$\text{Let } \tan \theta = \frac{1}{\sqrt{3}}, \quad \pi < \theta < \frac{3\pi}{2}$$

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

$$\cos \theta =$$

$$\sec \theta =$$

$$\sin \theta =$$

$$\csc \theta =$$

$$\cot \theta =$$

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Answers:**

$$\text{Let } \tan \theta = \frac{1}{\sqrt{3}}, \quad \pi < \theta < \frac{3\pi}{2}$$

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

$$\cos \theta = -\frac{\sqrt{3}}{2}$$

$$\sec \theta = -\frac{2}{\sqrt{3}}$$

$$\sin \theta = -\frac{1}{2}$$

$$\csc \theta = -2$$

$$\cot \theta = \sqrt{3}$$