Unit 6 Practice Test: Unit Circle
Objectives: I can convert from degrees to radians and radians to degrees. I can use the unit circle to evaluate trigonometric functions. I can find other trigonometric functions given a trigonometric function.

1. What is the radian measure of a $120^{\circ}$ angle?

$$
\frac{120^{\circ}}{180^{\circ}}=\frac{12}{18}=\frac{2}{3}
$$

$120^{\circ}$ is $\frac{2}{3}$ of semicircle,
So radian measure is $\frac{2}{3}$ of $\pi$ or $\frac{2}{3} \pi$
3. Determine the coterminal angle from $0^{\circ} \leq \theta<360^{\circ}$, the quadrant and the reference angle of $-150^{\circ}$.

$$
-150+360=210^{\circ}
$$



Coterminal Angle: $210^{\circ}$
Quadrant:


Reference Angle: $30^{\circ}$
2. What is the degree measure of an angle of $\frac{\pi}{3}$ radians?

$$
\begin{aligned}
& \frac{\pi}{3}=\frac{1}{3} \pi \\
& \frac{1}{3}(180)=60^{\circ} \text { of semicircle }
\end{aligned}
$$



