

Name _____

10-5A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 724–727 for objectives.

PROPERTIES Objective E

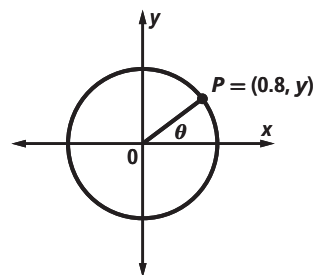
1. a. In which quadrants is the sine positive? _____
- b. In which quadrants is the cosine positive? _____
2. a. If $\cos \theta < 0$ and $\sin \theta < 0$, in which quadrant is θ ? _____
- b. If $\cos \theta < 0$ and $\sin \theta > 0$, in which quadrant is θ ? _____
3. a. Use a calculator to find the coordinates of $R_{50}(1, 0)$ and $R_{310}(1, 0)$ to the nearest thousandth.

- b. Explain how your two answers are related. _____

PROPERTIES Objective F

In 4 and 5, find the y -coordinate of P in the unit circle at the right using the given method. Round to the nearest tenth.

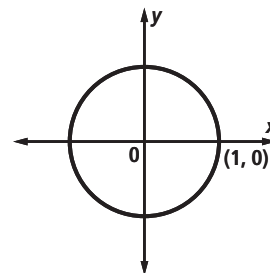
4. Use the inverse cosine function to find θ ; use θ to find the y -coordinate.
 $\theta =$ _____, $y =$ _____
5. **Fill in the Blanks** Use the Pythagorean Identity to find y .
Equation: _____, $y =$ _____
6. If $\sin \theta = 0.951$, find all possible values of θ between 0° and 360° to the nearest degree. _____



REPRESENTATIONS Objective I

In 7–10, use the unit circle at the right. a. Mark the point on the unit circle, and b. find the exact value of the trigonometric function.

7. a. $R_{60}(1, 0)$ b. $\cos 60^\circ =$ _____
8. a. $R_{135}(1, 0)$ b. $\sin 135^\circ =$ _____
9. a. $R_{210}(1, 0)$ b. $\cos 210^\circ =$ _____
10. a. $R_{-120}(1, 0)$ b. $\sin (-120^\circ) =$ _____
11. a. $R_{405}(1, 0)$ b. $\sin 405^\circ =$ _____



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