

Name _____

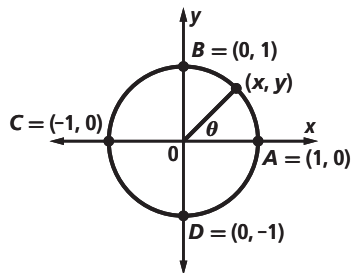
10-4A Lesson Master

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

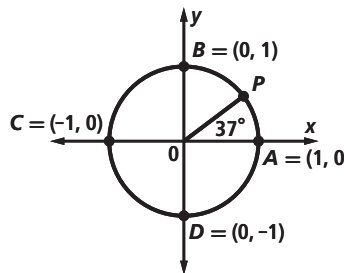
PROPERTIES Objective E

In questions 1 and 2, refer to the diagram below each question.

1. Find x and y in terms of θ .
 $x = \underline{\hspace{2cm}}$ and $y = \underline{\hspace{2cm}}$.



2. Find the coordinates of P to the nearest thousandth.
 $P = \underline{\hspace{2cm}}$.



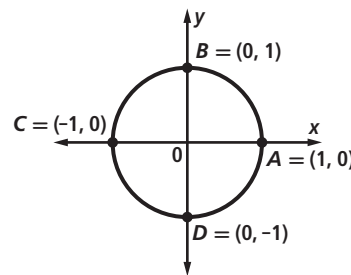
3. Explain why $\cos 45^\circ = \cos 405^\circ$.
- _____

4. **True or False** $\sin 20^\circ = \sin (-700^\circ)$. Explain.
- _____

REPRESENTATIONS Objective I

In 5–7, refer to the diagram at the right. a. Determine which point is the image of $(1, 0)$ under the given rotation. b. Find the value of the trigonometric function.

5. a. $R_{180}(1, 0) = \underline{\hspace{2cm}}$ b. $\cos 180^\circ = \underline{\hspace{2cm}}$
6. a. $R_{-90}(1, 0) = \underline{\hspace{2cm}}$ b. $\sin (-90^\circ) = \underline{\hspace{2cm}}$
7. a. $R_{720}(1, 0) = \underline{\hspace{2cm}}$ b. $\sin 720^\circ = \underline{\hspace{2cm}}$



In 8–12, which letter on the figure at the right could be the value of the trigonometric function?

8. $\sin 85^\circ = \underline{\hspace{2cm}}$
9. $\cos 40^\circ = \underline{\hspace{2cm}}$
10. $\cos 445^\circ = \underline{\hspace{2cm}}$
11. $\sin (-320^\circ) = \underline{\hspace{2cm}}$
12. $\cos (-275^\circ) = \underline{\hspace{2cm}}$

