

Name _____

2-8

Lesson Master

Questions on SPUR Objectives
See Student Edition pages 142–145 for objectives.

SKILLS

Objective B

In 1–3, give the coordinates of the point a. exactly and
b. to the nearest hundredth.

1. $R_{17^\circ}(1, 0)$ a. _____ b. _____

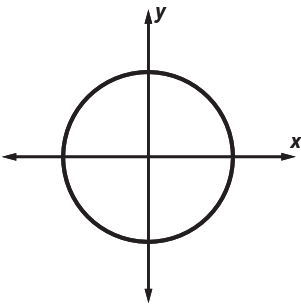
2. $R_{\frac{\pi}{8}}(1, 0)$ a. _____ b. _____

3. $R_{1.2}(1, 0)$ a. _____ b. _____

In 4–7, locate the given points on the unit circle at the right.

4. $A = (\cos 90^\circ, \sin 90^\circ)$ 5. $B = (\cos -45^\circ, \sin -45^\circ)$

6. $C = \left(\cos \frac{5\pi}{6}, \sin \frac{5\pi}{6}\right)$ 7. $D = (\cos 3\pi, \sin 3\pi)$



In 8–10, find the exact values of all six trigonometric functions
of the number.

8. $\frac{5\pi}{3}$ _____

9. 225° _____

10. $-\frac{\pi}{6}$ _____

Name _____

2-8

page 2

In 11–14, tell whether there is a value of θ that meets the given conditions. If so, find the value of θ . If not, explain why not.

11. $\sin \theta = 0.9$ and $\cos \theta = 0.4$ _____

12. $\csc \theta = 2$ and $\frac{\pi}{2} < \theta < \pi$ _____

13. $\cos \theta = -1.5$ _____

14. $\tan \theta = -1$ and $\sec \theta$ is positive _____

15. Give a value of x for which each value is undefined, or say that such a value does not exist.

a. $\sin x$ _____

b. $\cos x$ _____

c. $\tan x$ _____

d. $\csc x$ _____

e. $\sec x$ _____

f. $\cot x$ _____

16. Find the given values for the triangle at the right.

a. $\sin B$ _____

b. $\cos B$ _____

c. $\tan B$ _____

d. $\sec B$ _____

e. $\csc B$ _____

f. $\cot B$ _____

