

Name _____

10-9A Lesson Master

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

SKILLS Objective A

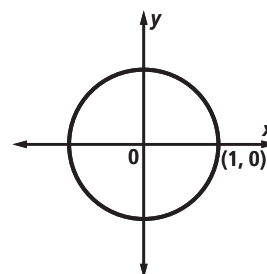
In 1-3, approximate the value to the nearest thousandth.

1. $\sin \frac{\pi}{12} =$ _____ 2. $\tan \frac{2\pi}{7} =$ _____ 3. $\cos 3 =$ _____

SKILLS Objective D

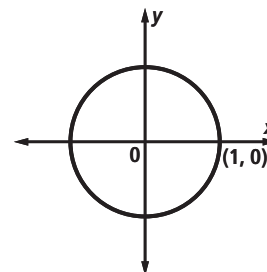
In 4-9, convert the radian measure to degrees. Plot a point on the unit circle at the right whose x - and y -coordinates are the cosine and sine of the angle.

4. 2π _____ 5. $\frac{5\pi}{2}$ _____
 6. $-\frac{\pi}{6}$ _____ 7. $\frac{7\pi}{3}$ _____
 8. 6 _____ 9. -3.21 _____
 10. 9.46 _____ 11. $\frac{3\pi}{8}$ _____



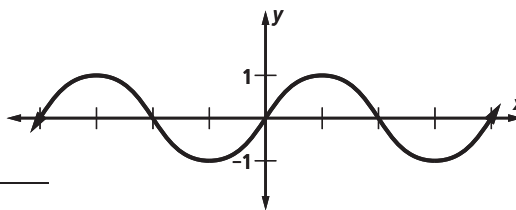
In 12-17, convert the degree measure to radians. In 12-15, give an exact answer using π . Plot a point on the unit circle at the right whose x - and y -coordinates are the cosine and sine of the angle.

12. 180° _____ 13. -90° _____
 14. 405° _____ 15. 240° _____
 16. 1° _____ 17. 83.4° _____



18. The function $y = \sin x$ is graphed at the right. Suppose x is measured in radians.

- a. Label all of the x -intercepts shown on the graph.
 b. What is the period of the function? _____



In 19-24, give the exact value of the trigonometric function.

19. $\sin \frac{\pi}{2} =$ _____ 20. $\tan \frac{3\pi}{4} =$ _____ 21. $\cos \frac{5\pi}{3} =$ _____
 22. $\cos 12\pi =$ _____ 23. $\cos -4.5\pi =$ _____ 24. $\cos \frac{19\pi}{6} =$ _____