

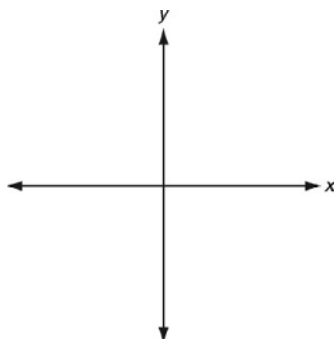
LESSON
17-1

Angles of Rotation and Radian Measure

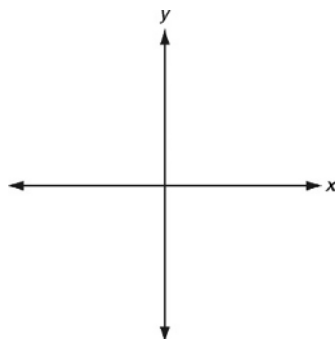
Practice and Problem Solving: A/B

Draw an angle with the given measure in standard position.

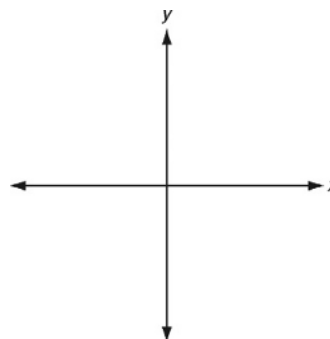
1. -420°



2. 405°



3. -450°



Find the measures of a positive angle and a negative angle that are coterminal with each given angle.

4. $\theta = 425^\circ$

5. $\theta = -316^\circ$

6. $\theta = -800^\circ$

7. $\theta = 281^\circ$

8. $\theta = -4^\circ$

9. $\theta = 743^\circ$

Convert each measure from degrees to radians or from radians to degrees.

10. $\frac{5\pi}{12}$

11. 215°

12. $-\frac{29\pi}{18}$

13. -180°

14. $\frac{5\pi}{3}$

15. $-\frac{7\pi}{6}$

Solve.

16. San Antonio, Texas, is located about 30° north of the equator. If Earth's radius is about 3959 miles, approximately how many miles is San Antonio from the equator?

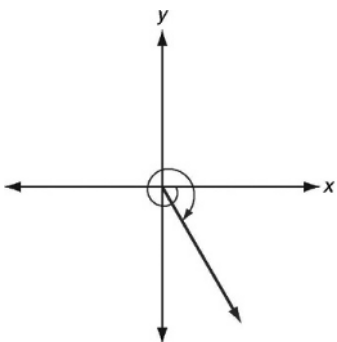
Unit 7 Trigonometric Functions

MODULE 17 Unit-Circle Definition of Trigonometric Functions

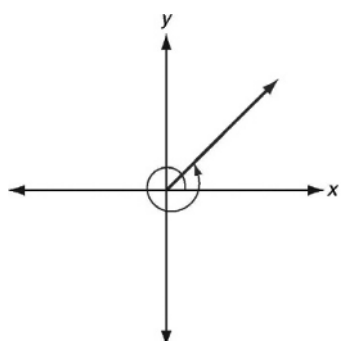
LESSON 17-1

Practice and Problem Solving: A/B

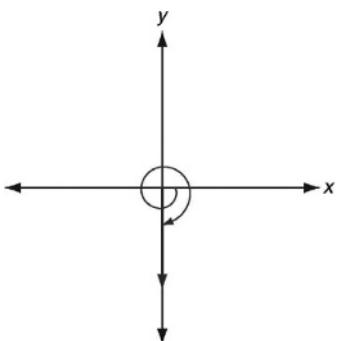
1.



2.



3.



4. $65^\circ, -295^\circ$

5. $44^\circ, -676^\circ$

6. $280^\circ, -80^\circ$

7. $641^\circ, -79^\circ$

8. $356^\circ, -364^\circ$

9. $23^\circ, -337^\circ$

10. 75°

11. $\frac{43\pi}{36}$ radians

12. -290°

13. $-\pi$ radians

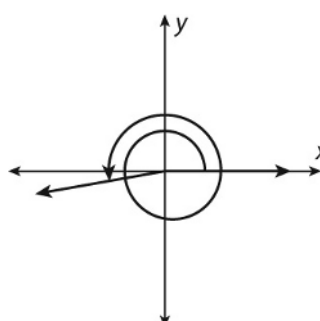
14. 300°

15. -210°

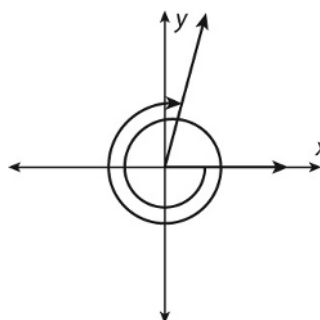
16. 2073 mi

Practice and Problem Solving: C

1.



2.



3.

