

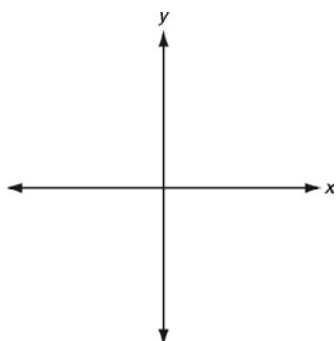
LESSON
17-1

Angles of Rotation and Radian Measure

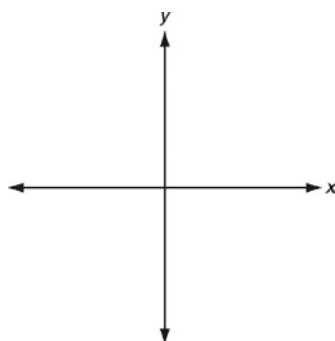
Practice and Problem Solving: A/B

Draw an angle with the given measure in standard position.

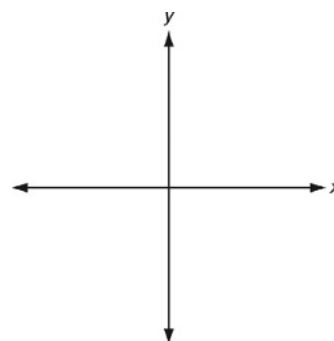
1. -420°



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?
