

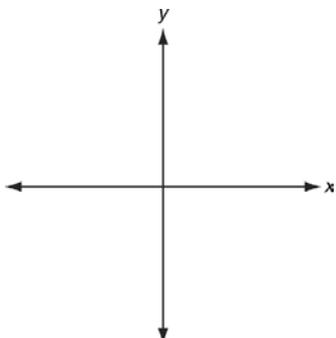
LESSON
10-2

Practice B

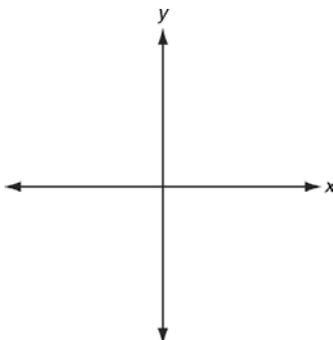
Angles of Rotation

Draw an angle with the given measure in standard position.

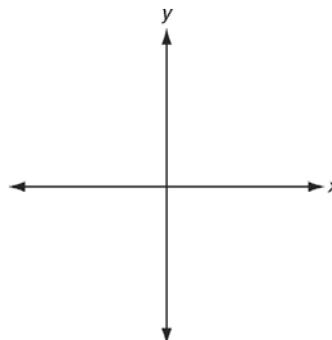
1. -420°



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. $\theta = 743^\circ$

Find the measure of the reference angle for each given angle.

10. $\theta = 211^\circ$

11. $\theta = -755^\circ$

12. $\theta = -555^\circ$

13. $\theta = 119^\circ$

14. $\theta = -160^\circ$

15. $\theta = 235^\circ$

P is a point on the terminal side of θ in standard position. Find the exact value of the six trigonometric functions for θ .

16. $P(-5, 5)$

17. $P(2, 9)$

18. $P(-7, -5)$

Solve.

19. A circus performer trots her pony into the ring. The pony circles the ring 22 times as the performer flips and turns on the pony's back. At the end of the act, the pony exits on the side of the ring opposite its point of entry. Through how many degrees does the pony trot during the entire act?
