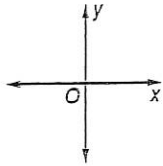


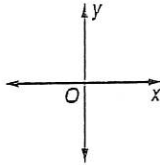
Angles and Angle Measure

Draw an angle with the given measure in standard position.

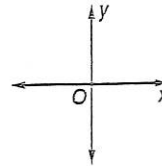
1. 210°



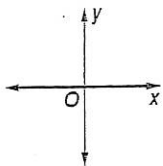
2. 305°



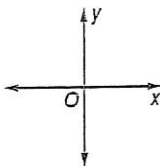
3. 580°



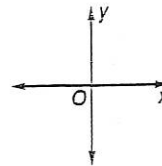
4. 135°



5. -450°



6. -560°



Rewrite each degree measure in radians and each radian measure in degrees.

7. 18°

8. 6°

9. 870°

10. 347°

11. -72°

12. -820°

13. -250°

14. -165°

15. 4π

16. $\frac{5\pi}{2}$

17. $\frac{13\pi}{5}$

18. $\frac{13\pi}{30}$

19. $-\frac{9\pi}{2}$

20. $-\frac{7\pi}{12}$

21. $-\frac{3\pi}{8}$

22. $-\frac{3\pi}{16}$

Find one angle with positive measure and one angle with negative measure coterminal with each angle.

23. 65°

24. 80°

25. 285°

26. 110°

27. -37°

28. -93°

29. $\frac{2\pi}{5}$

30. $\frac{5\pi}{6}$

31. $\frac{17\pi}{6}$

32. $-\frac{3\pi}{2}$

33. $-\frac{\pi}{4}$

34. $-\frac{5\pi}{12}$

35. **TIME** Find both the degree and radian measures of the angle through which the hour hand on a clock rotates from 5 A.M. to 10 A.M.

36. **ROTATION** A truck with 16-inch radius wheels is driven at 77 feet per second (52.5 miles per hour). Find the measure of the angle through which a point on the outside of the wheel travels each second. Round to the nearest degree and nearest radian.