

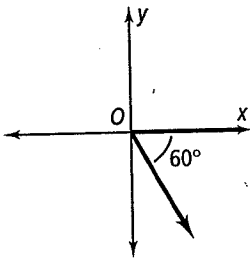
13-2 Practice

Angles and the Unit Circle

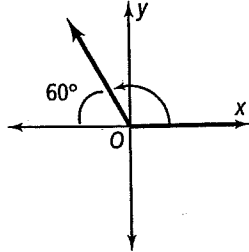
Form G

Find the measure of each angle in standard position.

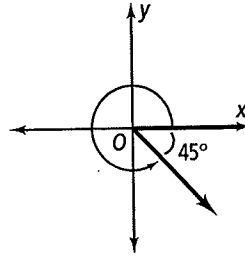
1.



2.



3.



Sketch each angle in standard position.

4. 100°

5. 210°

6. -45°

7. -90°

8. -330°

9. -180°

10. -145°

11. 60°

Find the measure of an angle between 0° and 360° coterminal with each given angle.

12. -100°

13. -60°

14. -225°

15. -145°

16. 372°

17. -15°

18. 482°

19. 484°

20. -20°

21. 421°

22. 409°

23. -38°

24. 376°

25. -210°

26. 387°

27. 390°

28. 660°

29. 440°

30. -170°

31. 370°

32. -700°

33. 458°

34. 480°

35. 406°

36. -120°

37. 460°

38. -222°

39. -330°

40. -127°

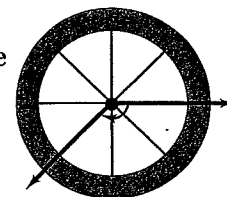
41. 377°

13-2 Practice (continued)

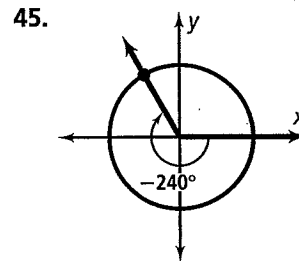
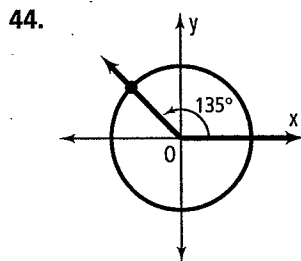
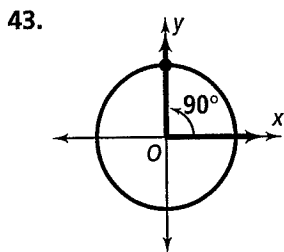
Angles and the Unit Circle

Form G

42. The spokes shown on the bicycle wheel at the right form an angle. Estimate the measures of two coterminal angles that coincide with the angle at the right.



Find the exact values of the cosine and sine of each angle. Then find the decimal values. Round your answers to the nearest hundredth.



46. 45°

47. -150°

48. 720°

Graphing Calculator For each angle θ , find the values of $\cos \theta$ and $\sin \theta$. Round your answers to the nearest hundredth.

49. 225°

50. -225°

51. -45°

52. 330°

53. -330°

54. 150°

Open-Ended Find a positive and a negative coterminal angle for the given angle.

55. 50°

56. -130°

57. -680°

58. 395°

59. -38°

60. -434°

61. a. Suppose you know the terminal side of angle θ lies in Quadrant II. What is the sign of $\cos \theta$? $\sin \theta$?
 b. **Writing** Describe the reasoning you followed to answer part (a).