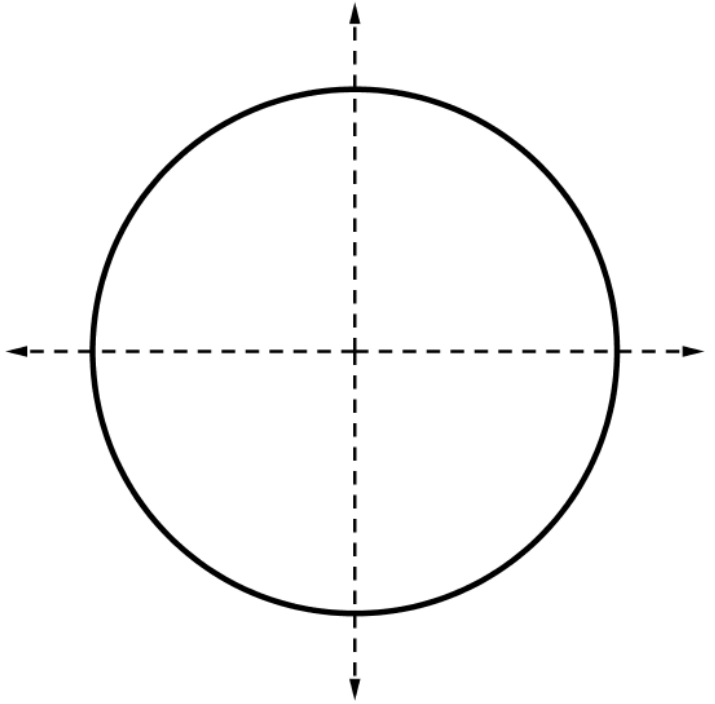
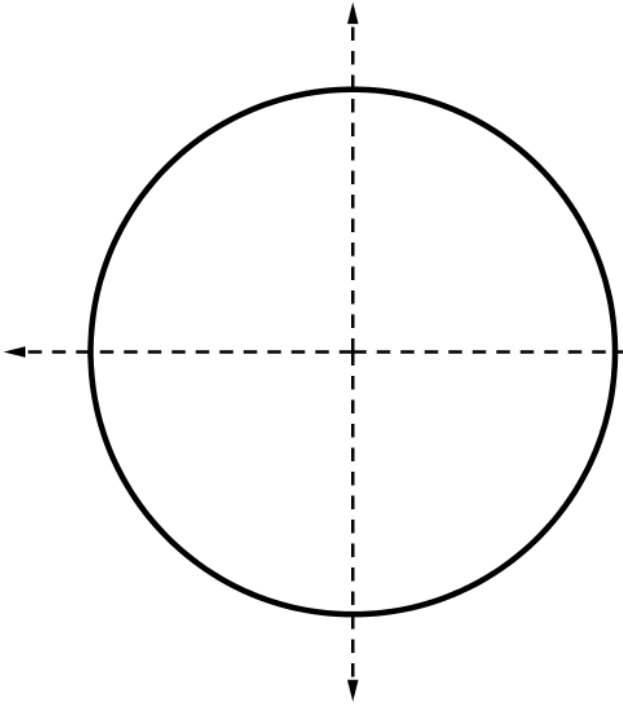


6.2

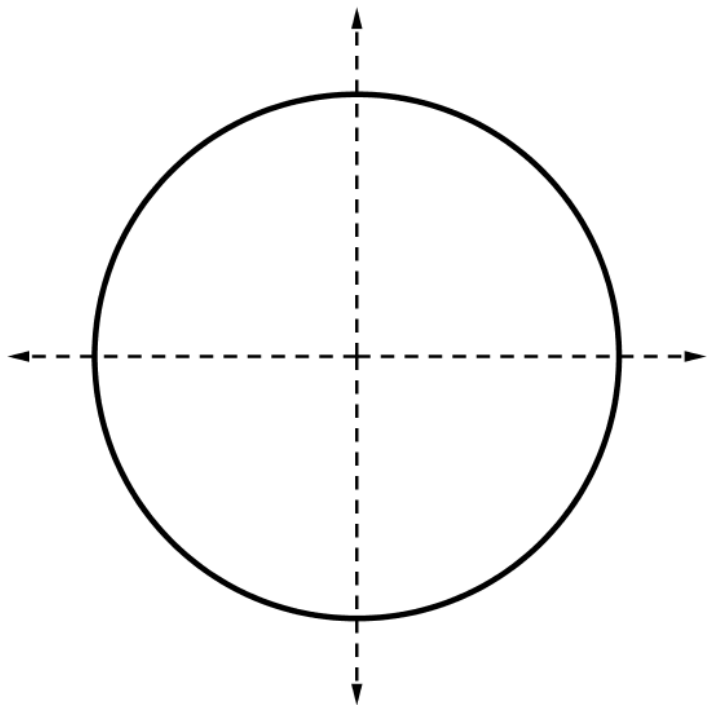
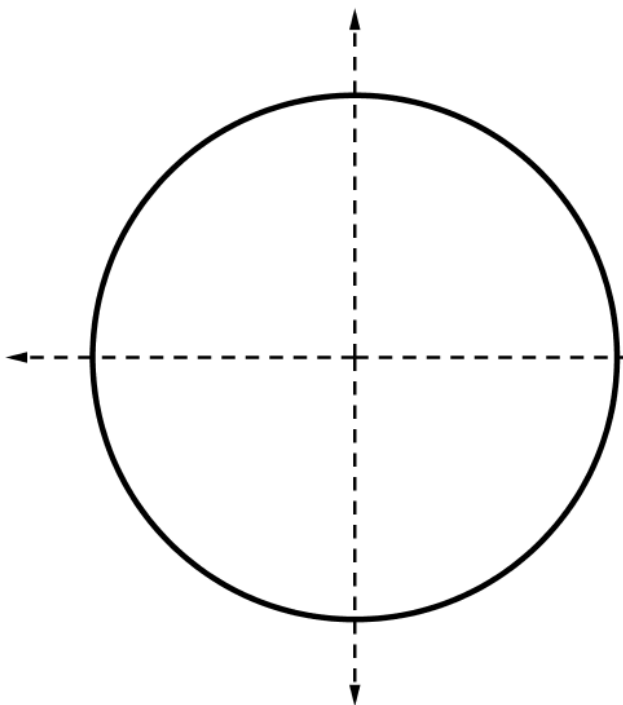
Name _____ Date _____ Period _____

Angle Measurement (Radians)

1. Draw lines to divide the circle into increments of $\frac{\pi}{4}$. 2. Draw lines to divide the circle into increments of $\frac{\pi}{2}$.



3. Draw lines to divide the circle into increments of $\frac{\pi}{6}$. 4. Draw lines to divide the circle into increments of $\frac{\pi}{3}$.



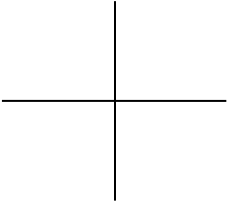
6.2

Name _____ Date _____ Period _____

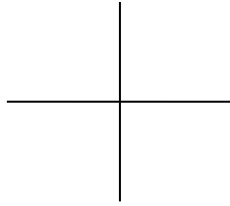
Angle Measurement (Radians)

Part A: Sketch each angle in standard position.

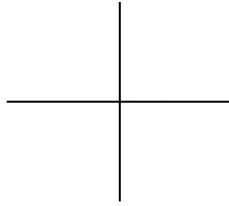
5. π



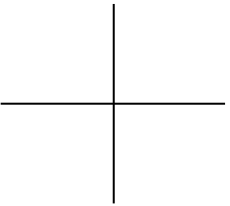
6. $\frac{\pi}{2}$



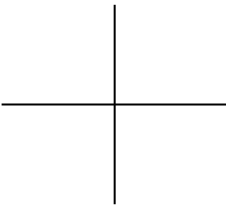
7. $\frac{\pi}{3}$



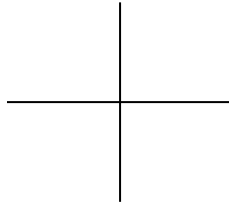
8. $\frac{\pi}{4}$



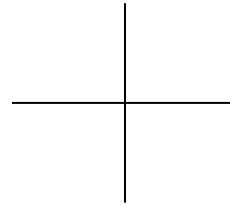
9. $\frac{\pi}{6}$



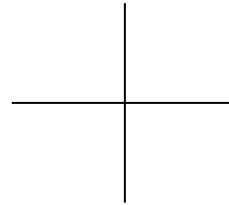
10. $\frac{2\pi}{3}$



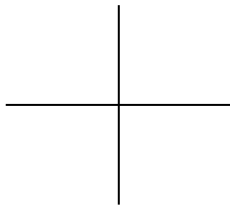
11. $\frac{3\pi}{4}$



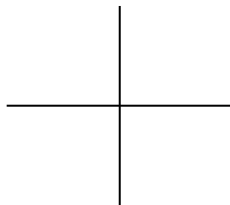
12. $\frac{5\pi}{6}$



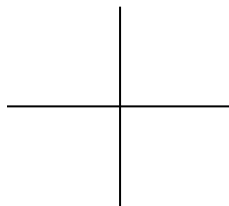
13. $\frac{7\pi}{6}$



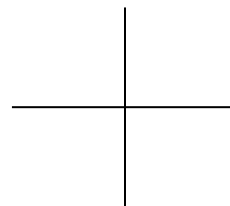
14. $\frac{5\pi}{4}$



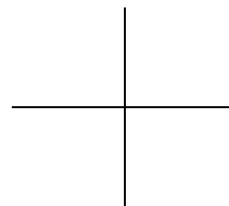
15. $\frac{4\pi}{3}$



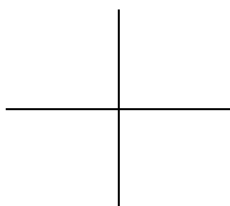
16. $\frac{3\pi}{2}$



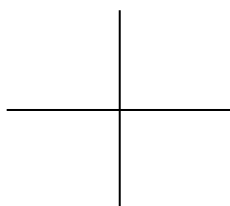
17. $\frac{5\pi}{3}$



18. $\frac{7\pi}{4}$



19. $\frac{11\pi}{6}$



Part B: Determine the reference angle (in radians) for each angle above. **Write your answer below, AND sketch the reference angle in Part A.**

5.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

6.2

Name _____ Date _____ Period _____

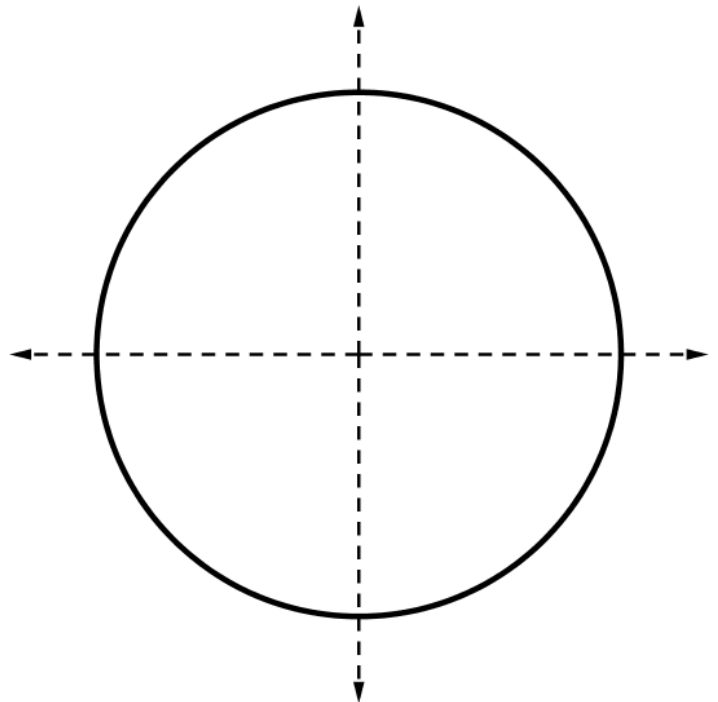
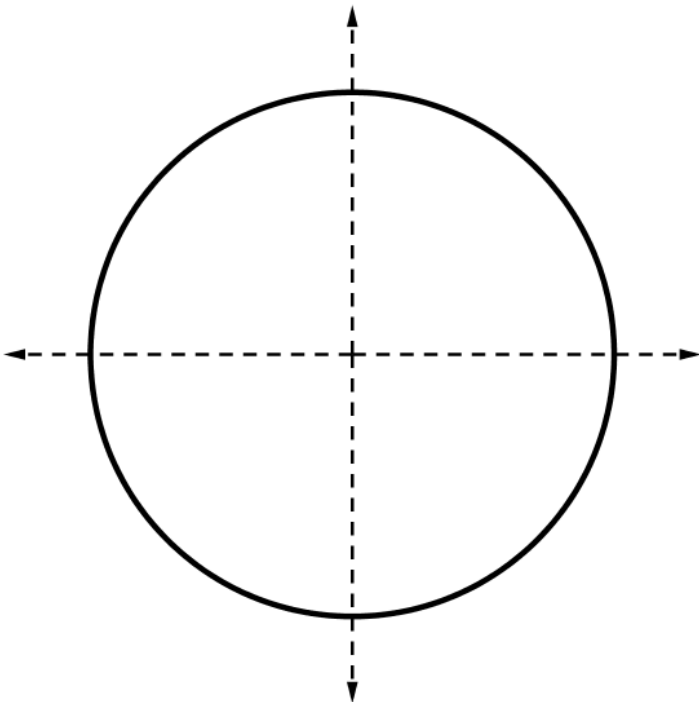
Angle Measurement (Radians)

Part C: Determine a **positive and negative** coterminal angle (in radians) for each angle above in Part A.

5. 6. 7. 8. 9.
10. 11. 12. 13. 14.
15. 16. 17. 18. 19.

20. Draw lines to divide the circle into increments of $\frac{\pi}{12}$.

21. Draw lines to divide the circle into increments of $\frac{\pi}{18}$.



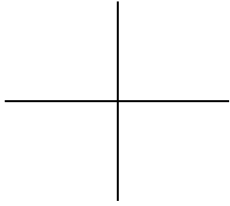
6.2

Name _____ Date _____ Period _____

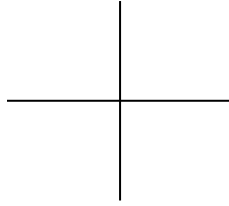
Angle Measurement (Radians)

Part D: Sketch each angle in standard position.

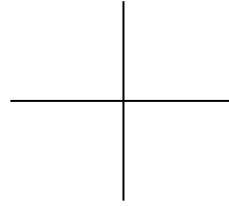
22. $\frac{5\pi}{2}$



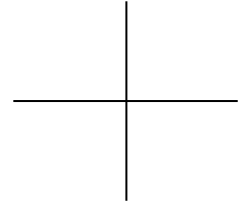
23. $-\frac{3\pi}{4}$



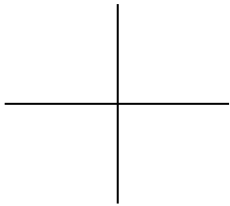
24. $\frac{7\pi}{12}$



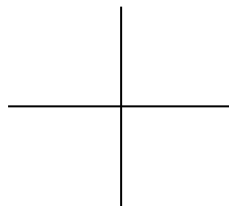
25. $\frac{10\pi}{3}$



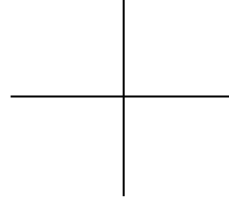
26. $-\frac{23\pi}{6}$



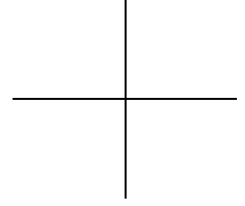
27. $\frac{17\pi}{6}$



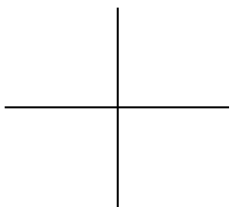
28. $-\frac{\pi}{2}$



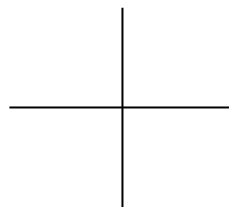
29. $\frac{23\pi}{12}$



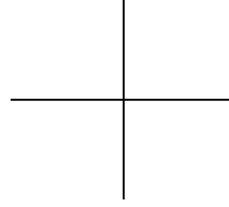
30. $-\frac{11\pi}{4}$



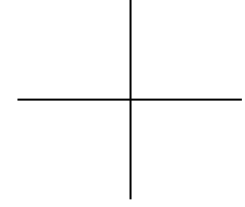
31. $-\frac{\pi}{6}$



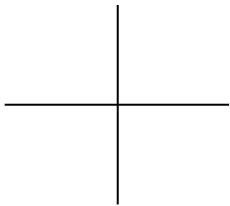
32. $\frac{15\pi}{4}$



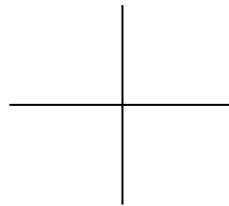
33. $\frac{14\pi}{3}$



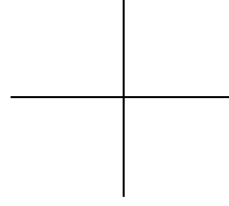
34. $-\frac{2\pi}{3}$



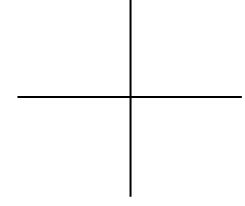
35. $-\pi$



36. 7π



37. $\frac{13\pi}{9}$



6.2

Name _____ Date _____ Period _____

Angle Measurement (Radians)

Part E: Determine the reference angle (in radians) for each angle above. **Write your answer below, AND sketch the reference angle in Part D.**

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

33.

34.

35.

36.

37.

Part F: Determine a **positive and negative** coterminal angle (in radians) for each angle above in Part D.

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

33.

34.

35.

36.

37.

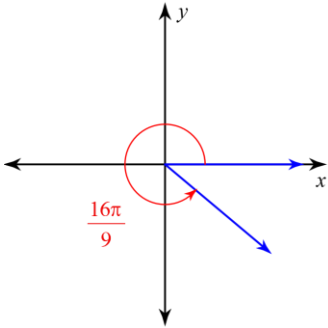
6.2

Name _____ Date _____ Period _____

Angle Measurement (Radians)

Determine the reference angle and at least one coterminal angle for each angle drawn below.

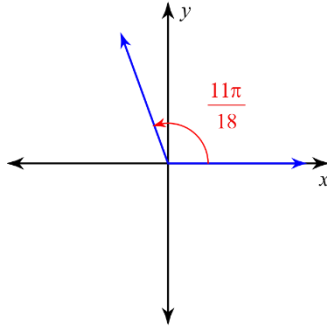
38.



Reference Angle: _____

Coterminal Angle: _____

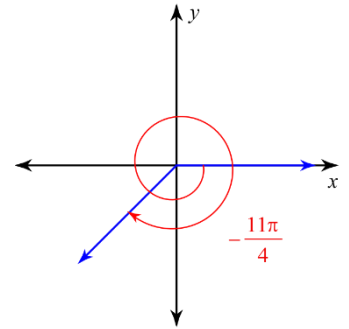
39.



Reference Angle: _____

Coterminal Angle: _____

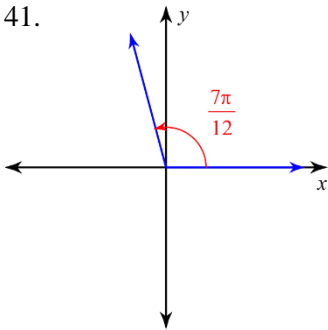
40.



Reference Angle: _____

Coterminal Angle: _____

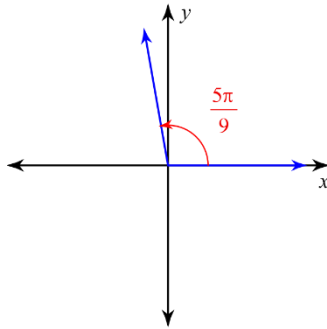
41.



Reference Angle: _____

Coterminal Angle: _____

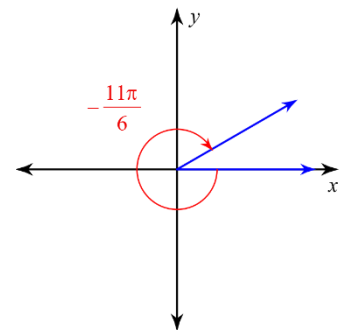
42.



Reference Angle: _____

Coterminal Angle: _____

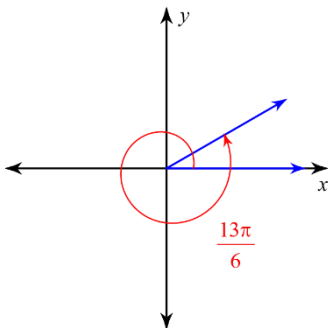
43.



Reference Angle: _____

Coterminal Angle: _____

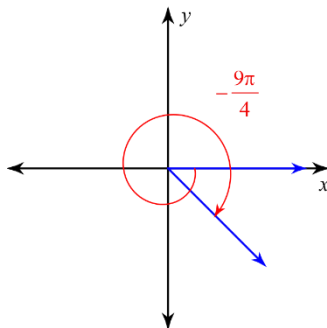
44.



Reference Angle: _____

Coterminal Angle: _____

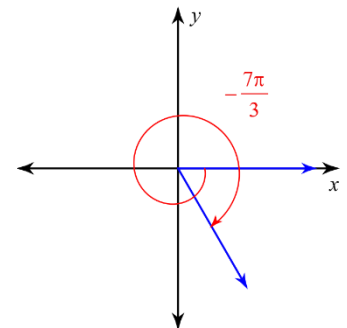
45.



Reference Angle: _____

Coterminal Angle: _____

46.



Reference Angle: _____

Coterminal Angle: _____

6.2

Name _____ Date _____ Period _____

Angle Measurement (Radians)

Determine which quadrant each of the following angles terminate.

47. $\frac{31\pi}{18}$

48. $\frac{5\pi}{8}$

49. $-\frac{\pi}{12}$

50. $\frac{19\pi}{18}$

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

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

53. $\frac{10\pi}{3}$

54. $-\frac{7\pi}{3}$

55. $\frac{17\pi}{12}$

56. $-\frac{\pi}{3}$

57. $\frac{20\pi}{9}$

58. $-\frac{7\pi}{4}$

59. $\frac{11\pi}{6}$

60. $-\frac{13\pi}{6}$

61. $\frac{5\pi}{4}$

62. $\frac{9\pi}{4}$

63. $\frac{23\pi}{12}$

64. $-\frac{2\pi}{5}$