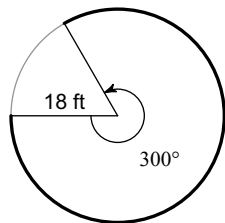


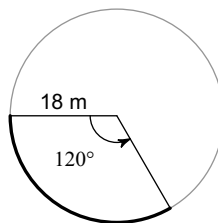
Arc Length, Sketching Angles, Reference Angles

Find the length of each arc.

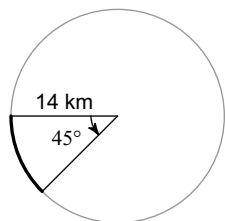
1)



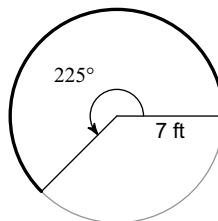
2)



3)



4)



FAST PRACTICE State the quadrant each angle lies. Use I, II, III, IV.

5) 126°

6) 278°

7) 310°

8) -70°

9) -20°

10) 118°

11) 174°

12) 60°

13) -208°

14) 35°

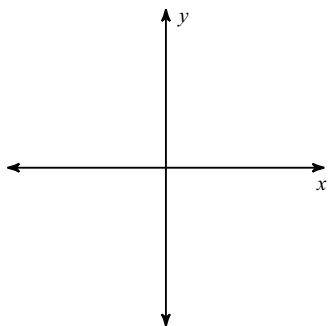
Find a positive and a negative coterminal angle for each given angle.

15) 600°

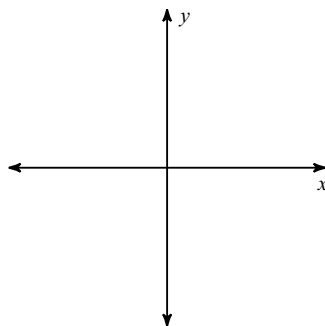
16) -394°

Draw an angle with the given measure in standard position.

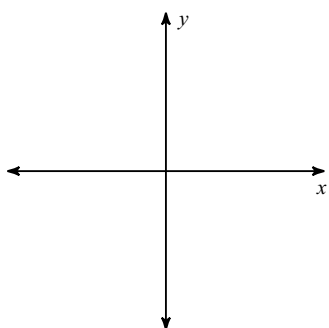
17) 320°



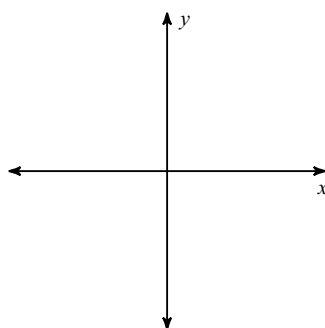
18) 125°



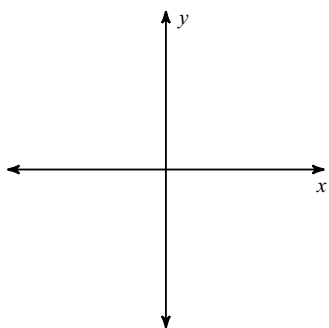
19) 230°



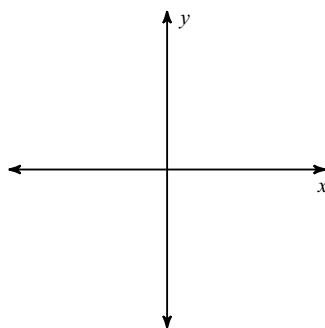
20) 55°



21) -200°



22) -225°



Sketch the angle and find the reference angle.

23) -115°

24) -320°

25) 250°

26) -225°

27) 280°

28) -160°

29) 170°

30) -260°

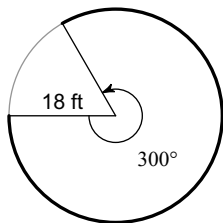
31) -305°

32) -230°

Arc Length, Sketching Angles, Reference Angles

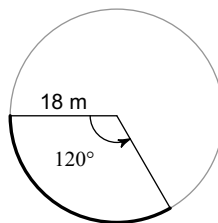
Find the length of each arc.

1)



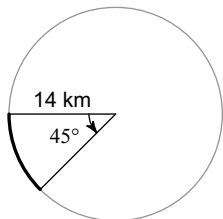
30π ft

2)



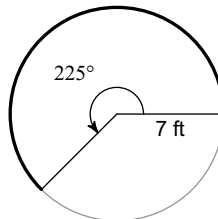
12π m

3)



$\frac{7\pi}{2}$ km

4)



$\frac{35\pi}{4}$ ft

FAST PRACTICE State the quadrant each angle lies. Use I, II, III, IV.

5) 126°

II

6) 278°

IV

7) 310°

IV

8) -70°

IV

9) -20°

IV

10) 118°

II

11) 174°

II

12) 60°

I

13) -208°

II

14) 35°

I

Find a positive and a negative coterminal angle for each given angle.

15) 600°

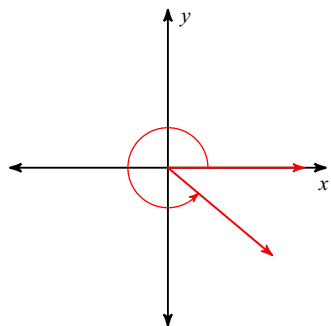
240° and -120°

16) -394°

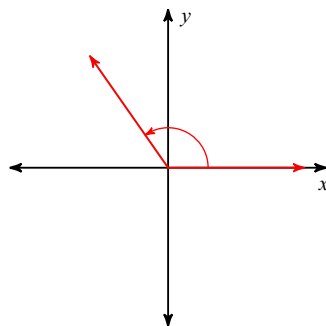
326° and -34°

Draw an angle with the given measure in standard position.

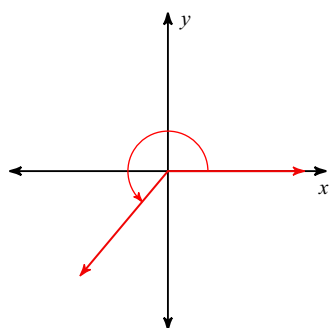
17) 320°



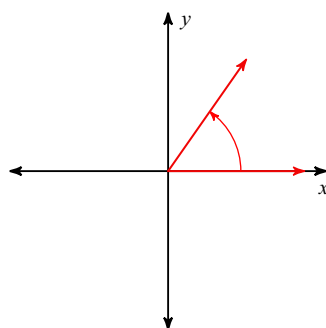
18) 125°



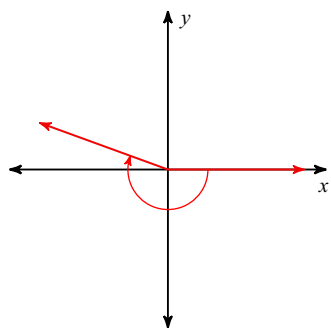
19) 230°



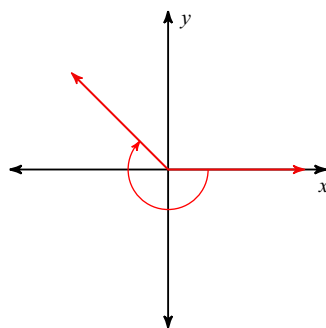
20) 55°



21) -200°



22) -225°



Sketch the angle and find the reference angle.

23) -115°

65°

24) -320°

40°

25) 250°

70°

26) -225°

45°

27) 280°

80°

28) -160°

20°

29) 170°

10°

30) -260°

80°

31) -305°

55°

32) -230°

50°