

Convert the given degrees to radians:

1. 60°

2. -180°

3. 570°

4. 120°

5. -90°

6. 390°

Convert the given radians to degrees:

7. $\frac{\rho}{2}$

8. $\frac{-4\rho}{3}$

9. $\frac{23\rho}{12}$

10. $\frac{\rho}{6}$

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

12. $-\frac{7\rho}{9}$

Find the exact trig value.

13. $\sin(\pi/6)$

14. $\cos(\pi/4)$

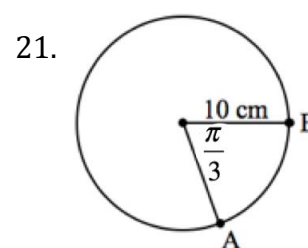
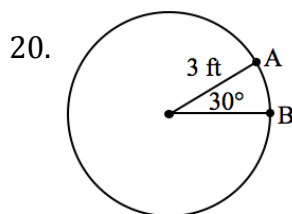
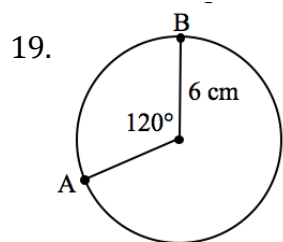
15. $\tan(\pi/3)$

16. $\sin(\pi/2)$

17. $\tan(\pi/4)$

18. $\cos(0)$

Find the Arc Length of \widehat{AB} . Don't forget units!!!



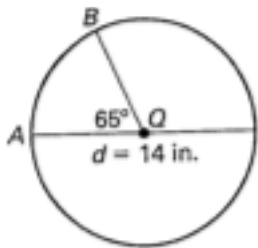
Find the Arc Length of the circle. Don't forget units!!!

22. $\theta = 2\pi/3$, $r = 5$ m.

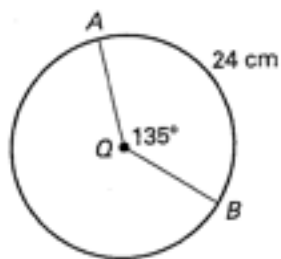
23. $\theta = \pi/4$, $r = 8$ ft.

Find the indicated measure:

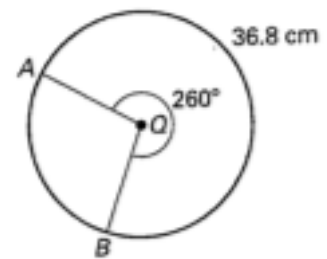
24. Length of \widehat{AB}



25. Circumference

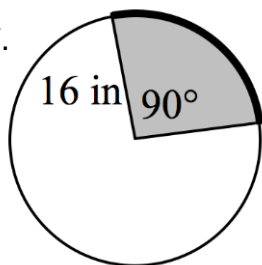


26. Radius

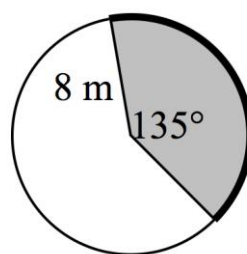


Find the area of the shaded region. Don't forget units!!!

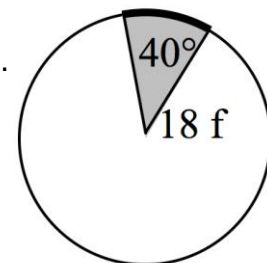
27.



28.



29.



Answer Key

1. $\frac{\rho}{3}$

3. $\frac{19\rho}{6}$

5. $-\frac{\rho}{2}$

8. -240°

10. 30°

12. -140°

14. $\frac{\sqrt{2}}{2}$

16. 1

18. 1

20. $\frac{\rho}{2}$ ft

22. $\frac{10}{3\rho}$ cm

23. 2ρ ft

25. 64 cm

27. 64ρ in²

29. 36ρ ft²