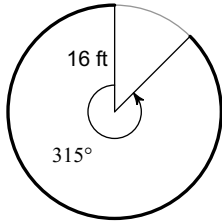


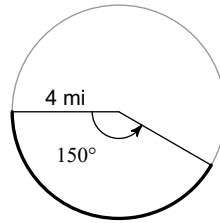
## Arc length and degree/radian conversion practice

Find the length of each arc. Round your answers to the nearest tenth.

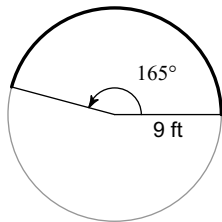
1)



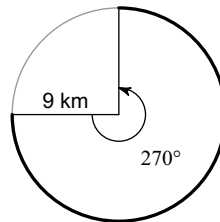
2)



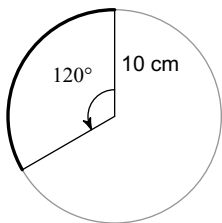
3)



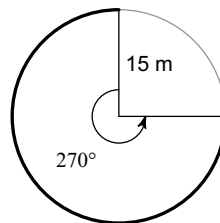
4)



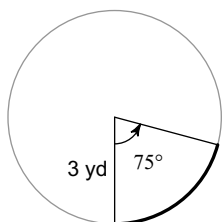
5)



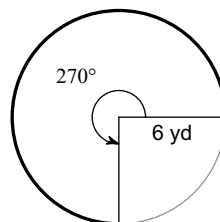
6)



7)



8)



**Convert each degree measure into radians and each radian measure into degrees.**

9)  $-210^\circ$

10)  $-\frac{4\pi}{3}$

11)  $855^\circ$

12)  $-\frac{\pi}{6}$

13)  $300^\circ$

14)  $125^\circ$

15)  $315^\circ$

16)  $-340^\circ$

17)  $540^\circ$

18)  $\frac{28\pi}{9}$

19)  $-950^\circ$

20)  $\frac{\pi}{2}$

## Answers to Arc length and degree/radian conversion practice

1) 88.0 ft

5) 20.9 cm

9)  $-\frac{7\pi}{6}$

13)  $\frac{5\pi}{3}$

17)  $3\pi$

2) 10.5 mi

6) 70.7 m

10)  $-240^\circ$

14)  $\frac{25\pi}{36}$

18)  $560^\circ$

3) 25.9 ft

7) 3.9 yd

11)  $\frac{19\pi}{4}$

15)  $\frac{7\pi}{4}$

19)  $-\frac{95\pi}{18}$

4) 42.4 km

8) 28.3 yd

12)  $-30^\circ$

16)  $-\frac{17\pi}{9}$

20)  $90^\circ$