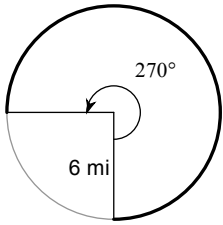


# Arc Length & Sector Area

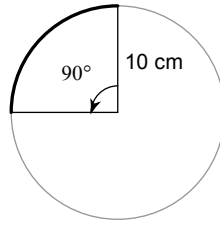
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**Find the length of each arc.**

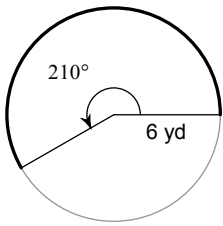
1)



2)

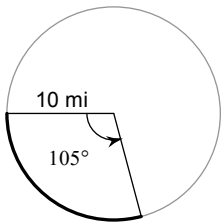


3)

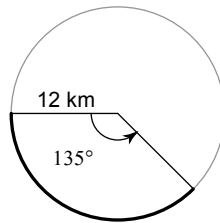


**Find the length of each arc. Round your answers to the nearest tenth.**

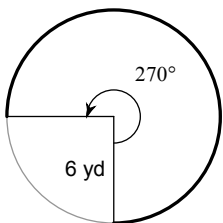
4)



5)

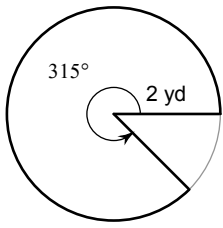


6)

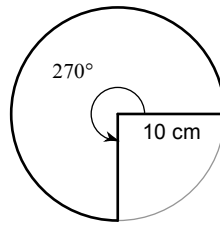


Find the area of each sector.

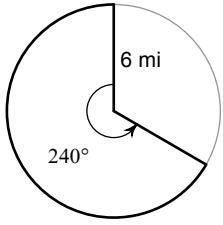
7)



8)

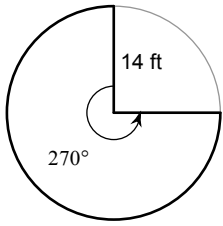


9)

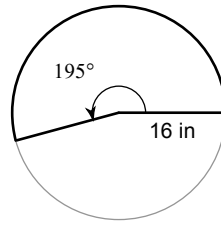


Find the area of each sector. Round your answers to the nearest tenth.

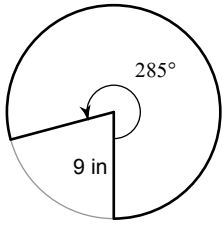
10)



11)



12)



## Answers to Arc Length & Sector Area

1)  $9\pi$  mi

5) 28.3 km

9)  $24\pi$  mi<sup>2</sup>

2)  $5\pi$  cm

6) 28.3 yd

10) 461.8 ft<sup>2</sup>

3)  $7\pi$  yd

7)  $\frac{7\pi}{2}$  yd<sup>2</sup>

11) 435.6 in<sup>2</sup>

4) 18.3 mi

8)  $75\pi$  cm<sup>2</sup>

12) 201.5 in<sup>2</sup>