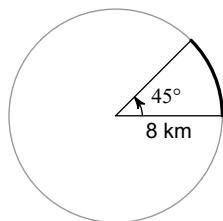


Unit 6.2 Arc Length and Sector Area PRACTICE

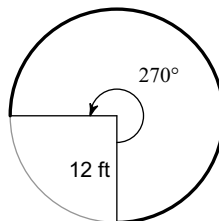
Find the length of each arc. Give answer in terms of pi.

1)



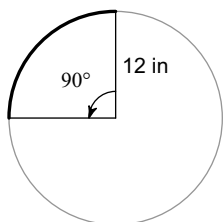
$2\pi \text{ km}$

2)



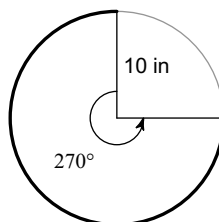
$18\pi \text{ ft}$

3)



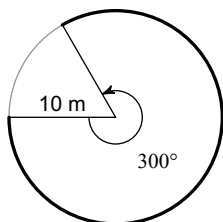
$6\pi \text{ in}$

4)



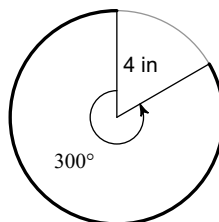
$15\pi \text{ in}$

5)



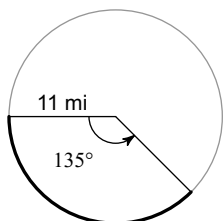
$\frac{50\pi}{3} \text{ m}$

6)



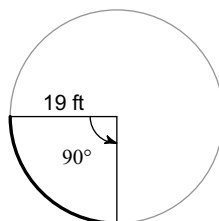
$\frac{20\pi}{3} \text{ in}$

7)



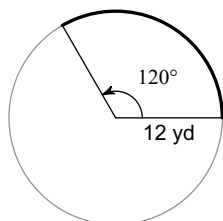
$\frac{33\pi}{4} \text{ mi}$

8)



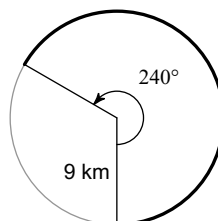
$\frac{19\pi}{2} \text{ ft}$

9)



$8\pi \text{ yd}$

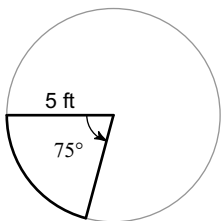
10)



$12\pi \text{ km}$

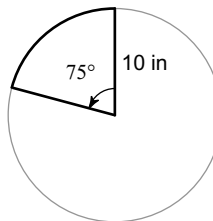
Find the area of each sector. Give answer in terms of pi.

11)



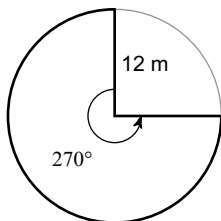
$$\frac{125\pi}{24} \text{ ft}^2$$

12)



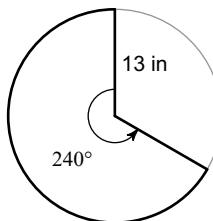
$$\frac{125\pi}{6} \text{ in}^2$$

13)



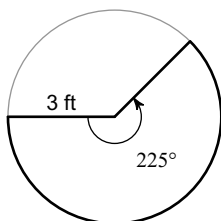
$$108\pi \text{ m}^2$$

14)



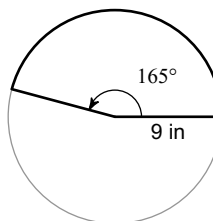
$$\frac{338\pi}{3} \text{ in}^2$$

15)



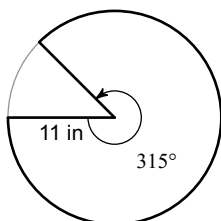
$$\frac{45\pi}{8} \text{ ft}^2$$

16)



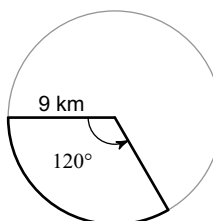
$$\frac{297\pi}{8} \text{ in}^2$$

17)



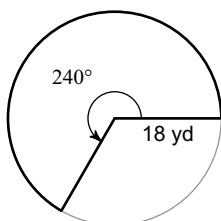
$$\frac{847\pi}{8} \text{ in}^2$$

18)



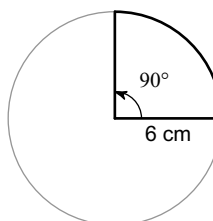
$$27\pi \text{ km}^2$$

19)



$$216\pi \text{ yd}^2$$

20)



$$9\pi \text{ cm}^2$$