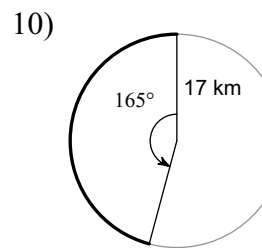
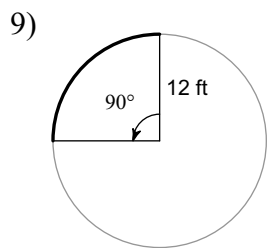
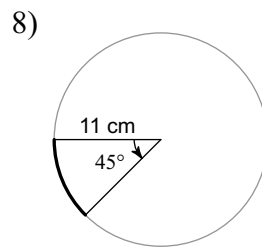
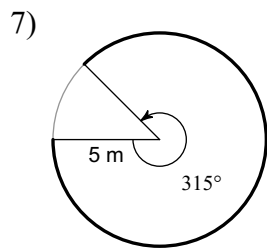
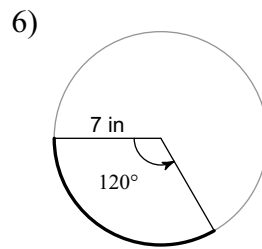
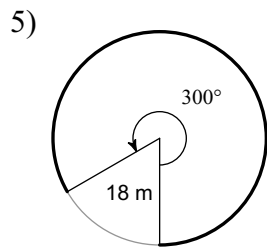
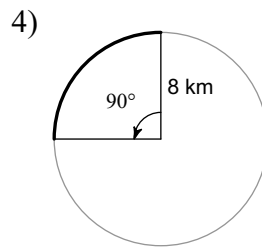
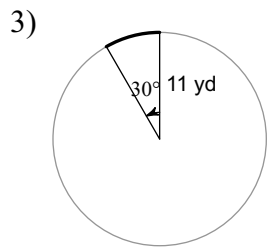
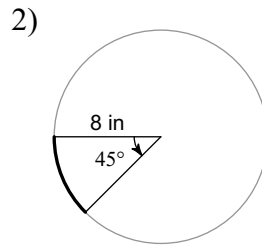
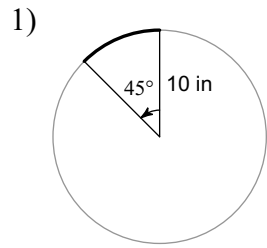


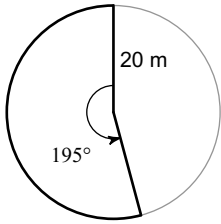
# Unit 6.2 Arc Length and Sector Area EXAMPLE

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

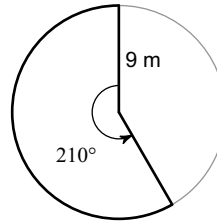


Find the area of each sector. Give answer in terms of pi.

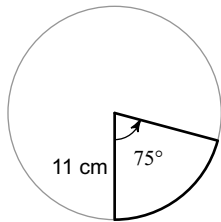
11)



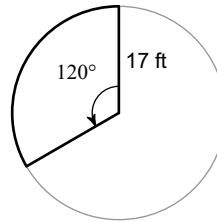
12)



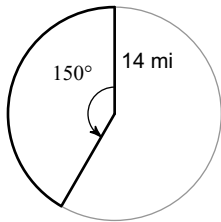
13)



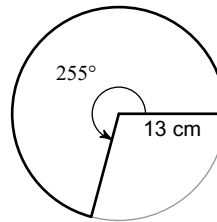
14)



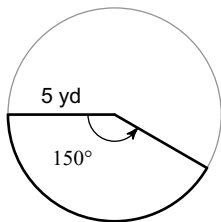
15)



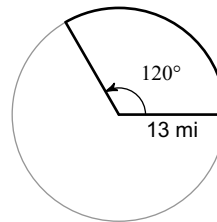
16)



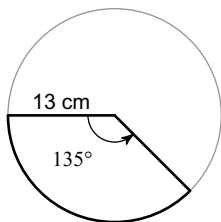
17)



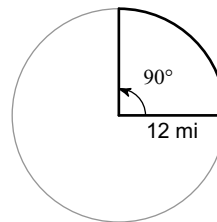
18)



19)



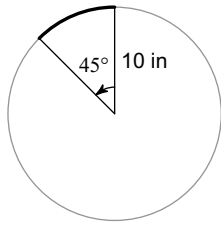
20)



## Unit 6.2 Arc Length and Sector Area EXAMPLE

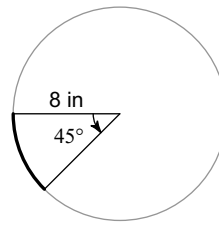
Find the length of each arc. Give answer in terms of pi.

1)



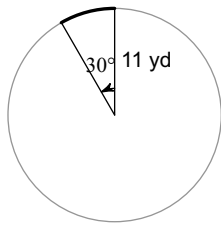
$$\frac{5\pi}{2} \text{ in}$$

2)



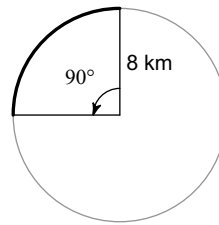
$$2\pi \text{ in}$$

3)



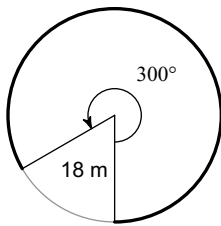
$$\frac{11\pi}{6} \text{ yd}$$

4)



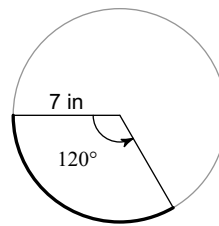
$$4\pi \text{ km}$$

5)



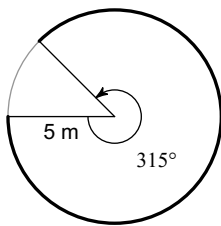
$$30\pi \text{ m}$$

6)



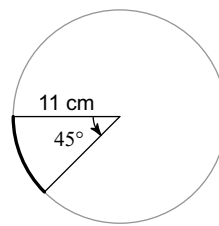
$$\frac{14\pi}{3} \text{ in}$$

7)



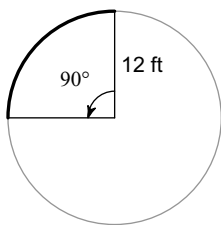
$$\frac{35\pi}{4} \text{ m}$$

8)



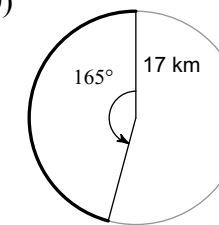
$$\frac{11\pi}{4} \text{ cm}$$

9)



$$6\pi \text{ ft}$$

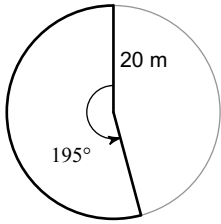
10)



$$\frac{187\pi}{12} \text{ km}$$

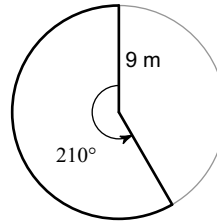
Find the area of each sector. Give answer in terms of pi.

11)



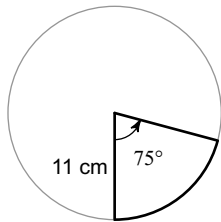
$$\frac{650\pi}{3} \text{ m}^2$$

12)



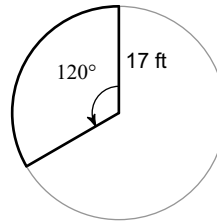
$$\frac{189\pi}{4} \text{ m}^2$$

13)



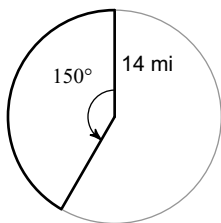
$$\frac{605\pi}{24} \text{ cm}^2$$

14)



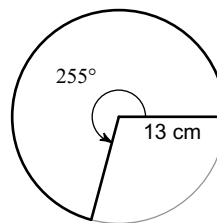
$$\frac{289\pi}{3} \text{ ft}^2$$

15)



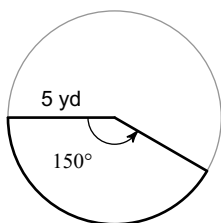
$$\frac{245\pi}{3} \text{ mi}^2$$

16)



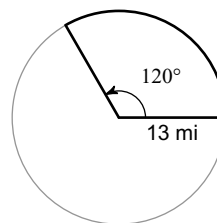
$$\frac{2873\pi}{24} \text{ cm}^2$$

17)



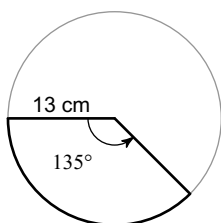
$$\frac{125\pi}{12} \text{ yd}^2$$

18)



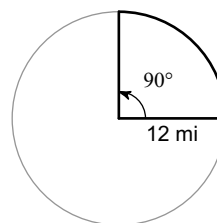
$$\frac{169\pi}{3} \text{ mi}^2$$

19)



$$\frac{507\pi}{8} \text{ cm}^2$$

20)



$$36\pi \text{ mi}^2$$