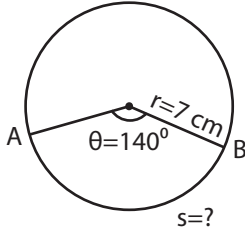


Length of Arc

Example:



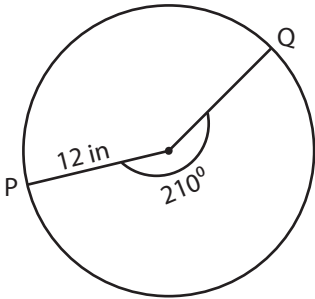
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc AB = **17.10 cm**

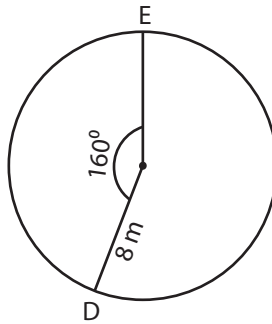
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



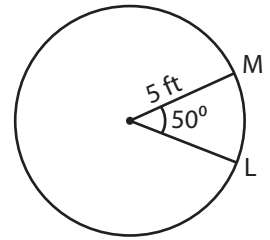
Length of the arc PQ = _____

2)



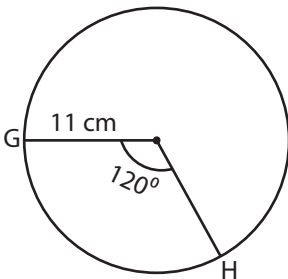
Length of the arc DE = _____

3)



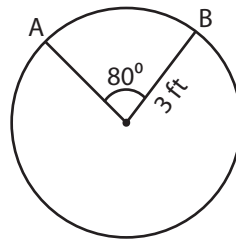
Length of the arc LM = _____

4)



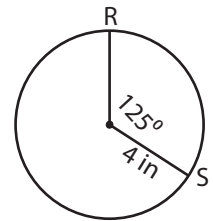
Length of the arc GH = _____

5)



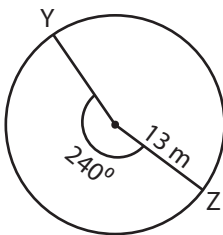
Length of the arc AB = _____

6)



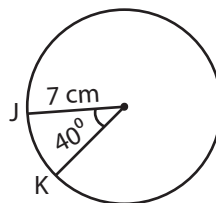
Length of the arc RS = _____

7)



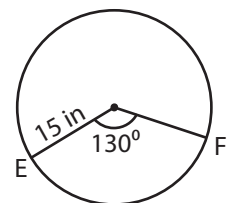
Length of the arc YZ = _____

8)



Length of the arc JK = _____

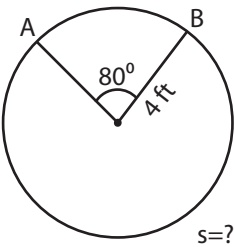
9)



Length of the arc EF = _____

Length of Arc

Example:



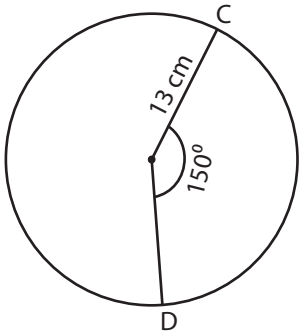
Arc length of a sector (s) = $\frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$

$$= \frac{80^\circ \times 3.14 \times 4}{180^\circ}$$

Length of the arc AB = **5.58 ft**

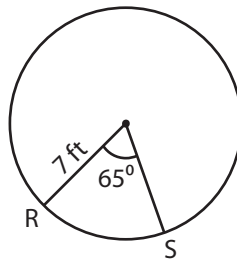
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



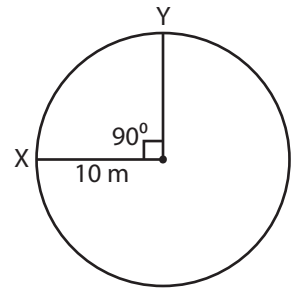
Length of the arc CD = _____

2)



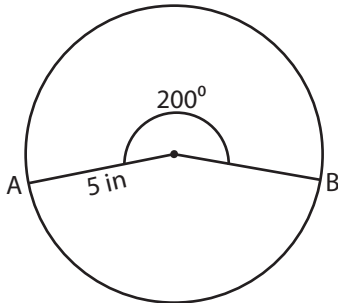
Length of the arc RS = _____

3)



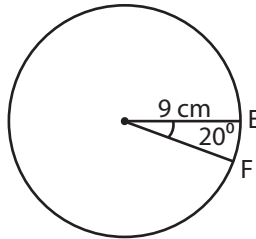
Length of the arc XY = _____

4)



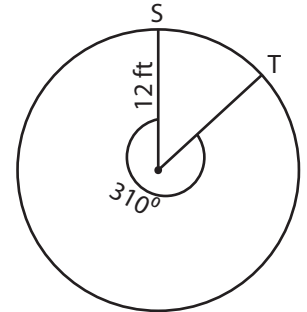
Length of the arc AB = _____

5)



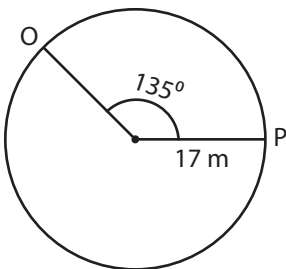
Length of the arc EF = _____

6)



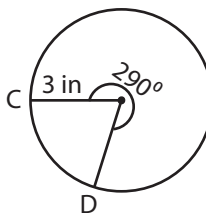
Length of the arc ST = _____

7)



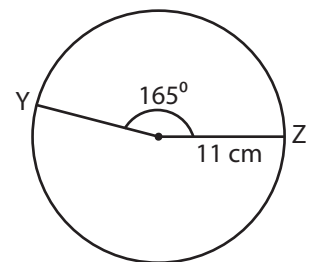
Length of the arc OP = _____

8)



Length of the arc CD = _____

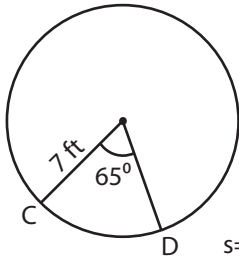
9)



Length of the arc YZ = _____

Length of Arc

Example:



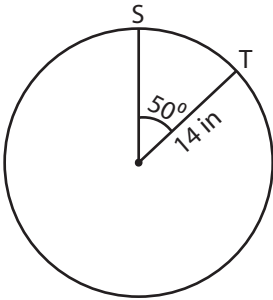
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{65^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc CD = **7.94 ft**

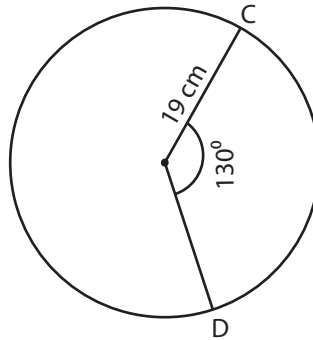
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



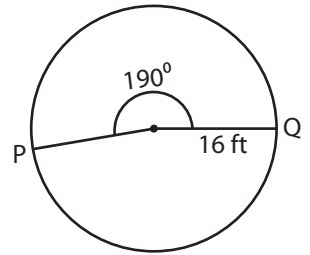
Length of the arc ST = _____

2)



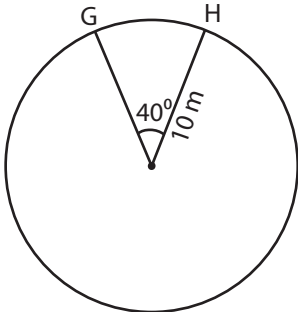
Length of the arc CD = _____

3)



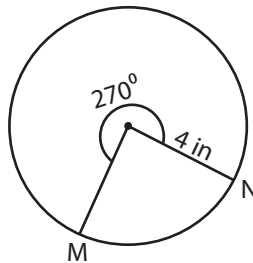
Length of the arc PQ = _____

4)



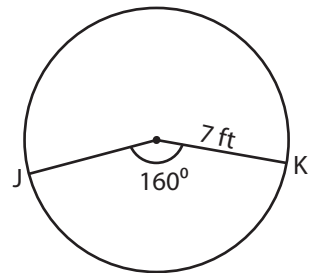
Length of the arc GH = _____

5)



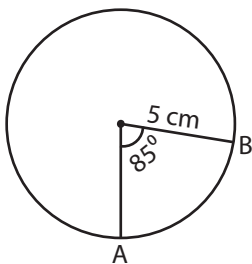
Length of the arc MN = _____

6)



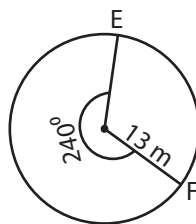
Length of the arc JK = _____

7)



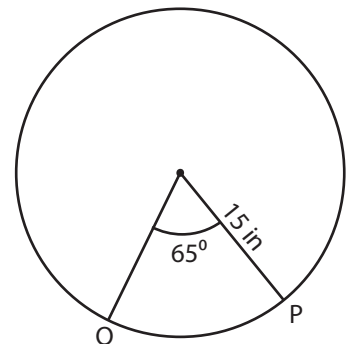
Length of the arc AB = _____

8)



Length of the arc EF = _____

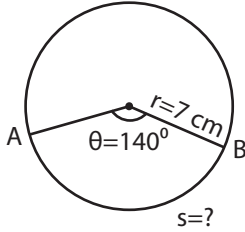
9)



Length of the arc OP = _____

Length of Arc

Example:



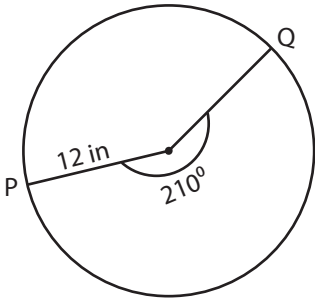
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc AB = **17.10 cm**

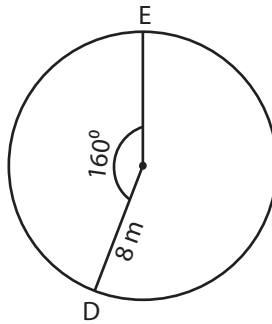
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



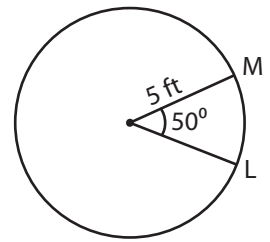
Length of the arc PQ = **43.96 in**

2)



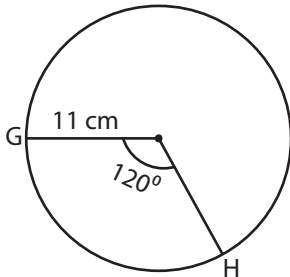
Length of the arc DE = **22.33 m**

3)



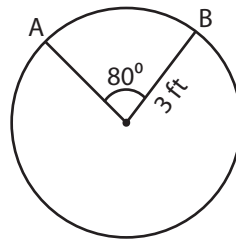
Length of the arc LM = **4.36 ft**

4)



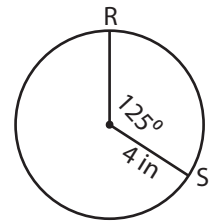
Length of the arc GH = **23.03 cm**

5)



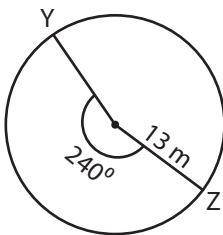
Length of the arc AB = **4.19 ft**

6)



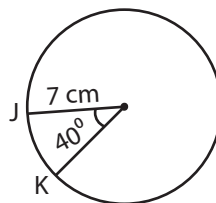
Length of the arc RS = **8.72 in**

7)



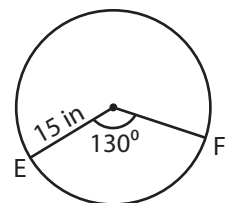
Length of the arc YZ = **54.43 m**

8)



Length of the arc JK = **4.88 cm**

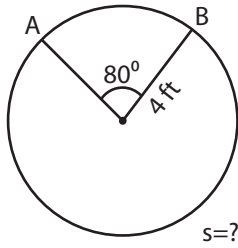
9)



Length of the arc EF = **34.02 in**

Length of Arc

Example:



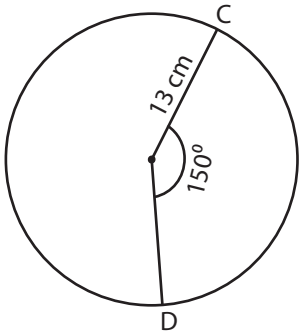
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{80^\circ \times 3.14 \times 4}{180^\circ}$$

Length of the arc AB = **5.58 ft**

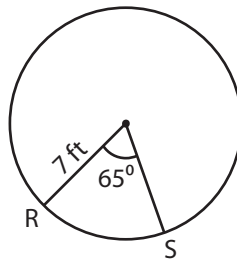
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



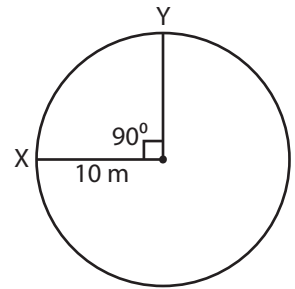
Length of the arc CD = **34.02 cm**

2)



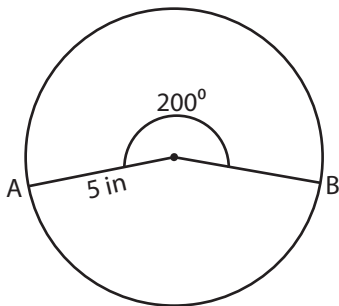
Length of the arc RS = **7.94 ft**

3)



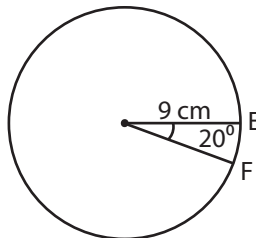
Length of the arc XY = **15.7 m**

4)



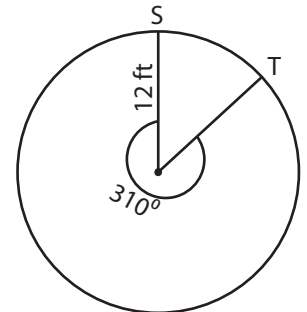
Length of the arc AB = **17.44 in**

5)



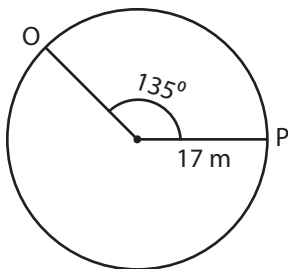
Length of the arc EF = **3.14 cm**

6)



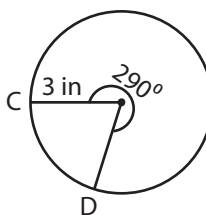
Length of the arc ST = **64.89 ft**

7)



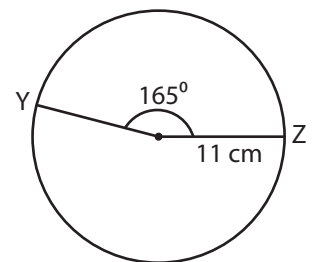
Length of the arc OP = **40.04 m**

8)



Length of the arc CD = **15.18 in**

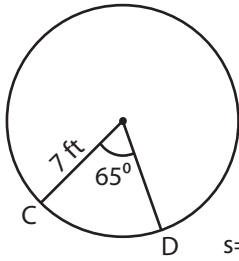
9)



Length of the arc YZ = **31.66 cm**

Length of Arc

Example:



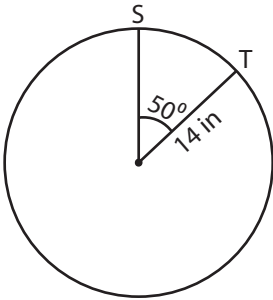
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{65^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc CD = **7.94 ft**

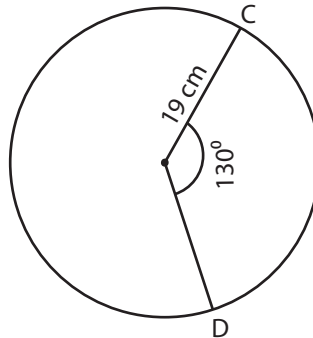
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



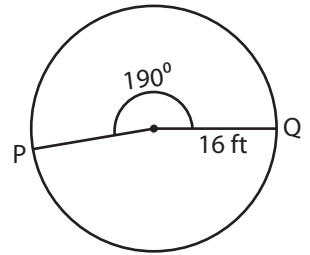
Length of the arc ST = **12.21 in**

2)



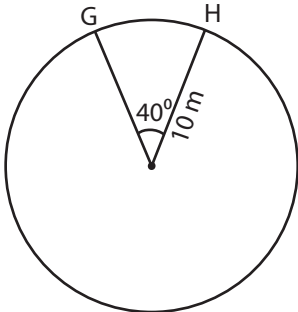
Length of the arc CD = **43.09 cm**

3)



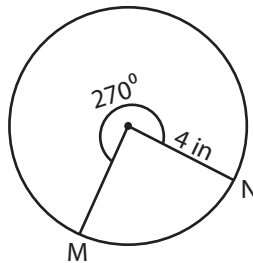
Length of the arc PQ = **53.03 ft**

4)



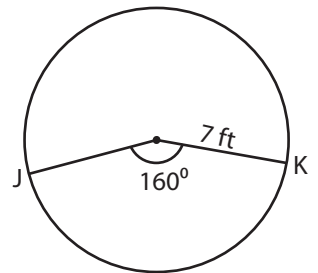
Length of the arc GH = **6.98 m**

5)



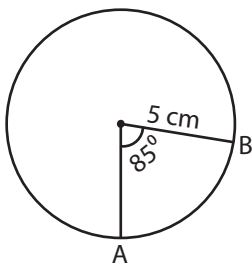
Length of the arc MN = **18.84 in**

6)



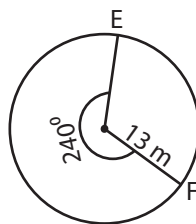
Length of the arc JK = **19.54 ft**

7)



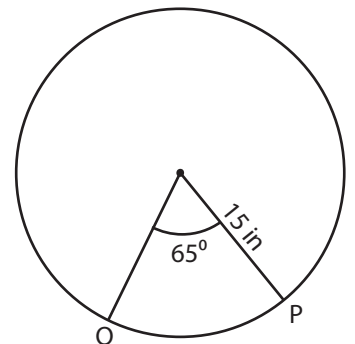
Length of the arc AB = **7.41 cm**

8)



Length of the arc EF = **54.43 m**

9)



Length of the arc OP = **17.01 in**