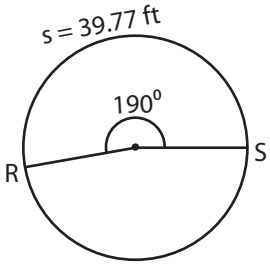
Arc Length of the Sector

Find the radius, central angle, and arc length of each circle. Round the radius and central angle to the nearest whole number and the arc length to two decimal places. (Use $\pi = 3.14$)

1)

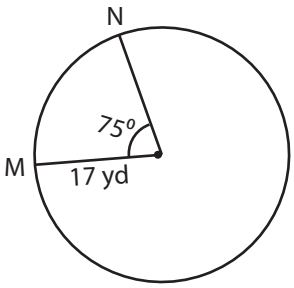


Radius = _____

Central angle = _____

Length of the arc RS = _____

2)

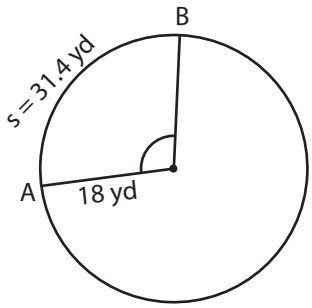


Radius = _____

Central angle = _____

Length of the arc MN = _____

3)

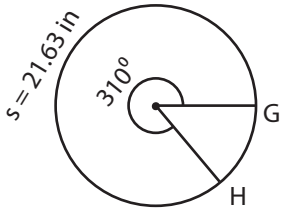


Radius = _____

Central angle = _____

Length of the arc AB = _____

4)

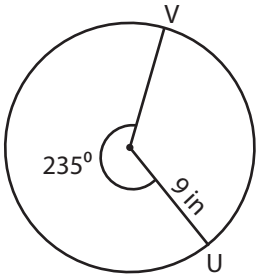


Radius = _____

Central angle = _____

Length of the arc OP = _____

5)

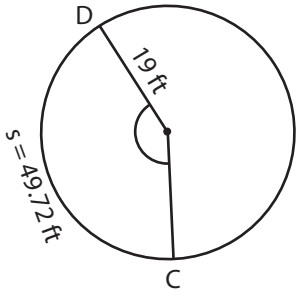


Radius = _____

Central angle = _____

Length of the arc UV = _____

6)



Radius = _____

Central angle = _____

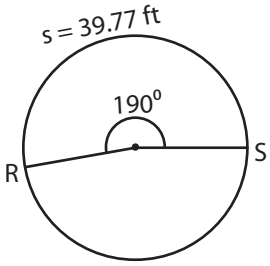
Length of the arc CD = _____

Arc Length of the Sector

Answer Key

Find the radius, central angle, and arc length of each circle. Round the radius and central angle to the nearest whole number and the arc length to two decimal places. (Use π = 3.14)

1)

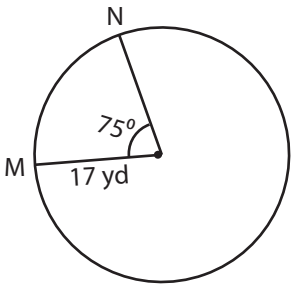


Radius = 12 ft

Central angle = 190°

Length of the arc RS = 39.77 ft

2)

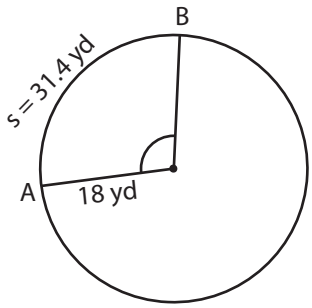


Radius = 17 yd

Central angle = 75°

Length of the arc MN = 22.24 yd

3)

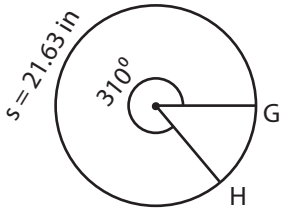


Radius = 18 yd

Central angle = 100°

Length of the arc AB = 31.4 yd

4)

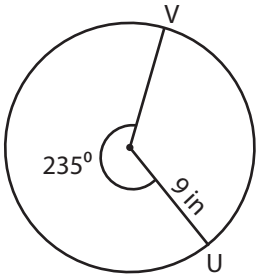


Radius = 4 in

Central angle = 310°

Length of the arc OP = 21.63 in

5)

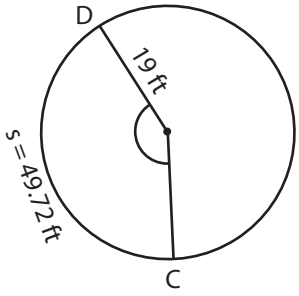


Radius = 9 in

Central angle = 235°

Length of the arc UV = 36.9 in

6)



Radius = 19 ft

Central angle = 150°

Length of the arc CD = 49.72 ft