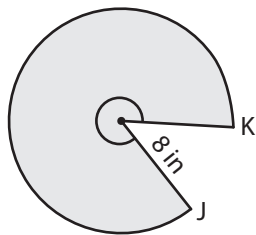# Finding the Arc Length from the Area of the Sector
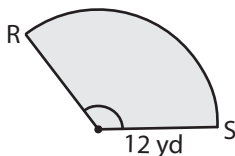
Find the arc length of each sector. Round your answer to two decimal places.
(Use $\pi = 3.14$)

1) Area = 173.05 in²
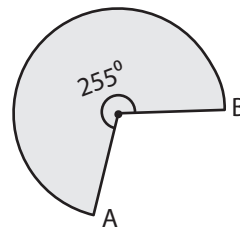
8 in

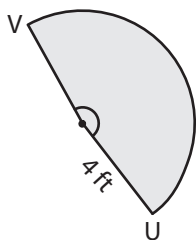Length of the arc JK = _____

2) Area = 157 yd²

R

12 yd S
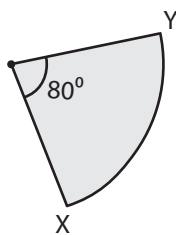
Length of the arc RS = _____

3) Area = 108.98 ft²

255°
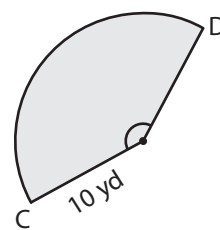
B

A

Length of the arc AB = _____

4) Area = 23.72 ft²

V
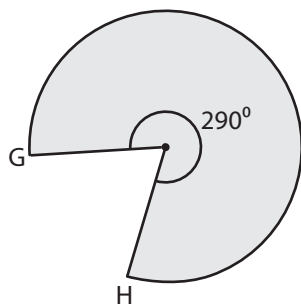
4 ft

U

Length of the arc UV = _____

5) Area = 17.44 in²
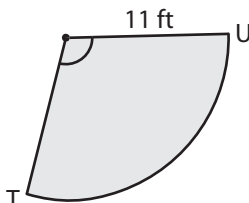
Y

80°

X

Length of the arc XY = _____

6) Area = 126.47 yd²
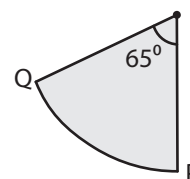
D

10 yd

C

Length of the arc CD = _____

7) Area = 731 yd²

290°

G

H

Length of the arc GH = _____

8) Area = 110.82 ft²

11 ft U

T

Length of the arc TU = _____
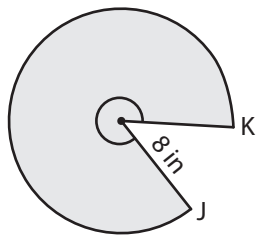
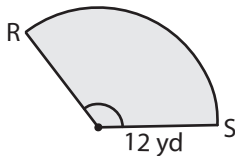9) Area = 20.41 in²

65°

Q

P

Length of the arc PQ = _____

Finding the Arc Length from the Area of the Sector *Answer Key*

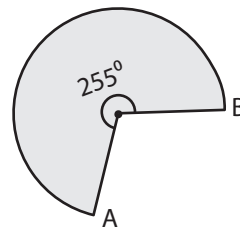Find the arc length of each sector. Round your answer to two decimal places.
(Use π = 3.14)

1) Area = 173.05 in²

K
8 in
J

Length of the arc JK = **43.26 in**

2) Area = 157 yd²

R
12 yd   S

Length of the arc RS = **26.17 yd**

3) Area = 108.98 ft²

255°
B
A

Length of the arc AB = **31.14 ft**

4) Area = 23.72 ft²

V
4 ft
U
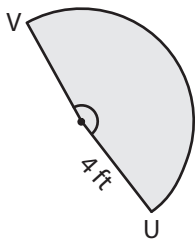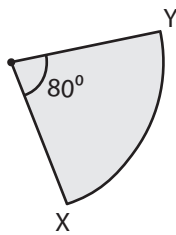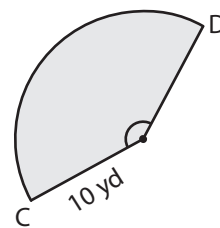
Length of the arc UV = **11.86 ft**

5) Area = 17.44 in²

Y
80°
X

Length of the arc XY = **6.98 in**

6) Area = 126.47 yd²

D
10 yd
C

Length of the arc CD = **25.29 yd**

7) Area = 731 yd²

290°
G
H
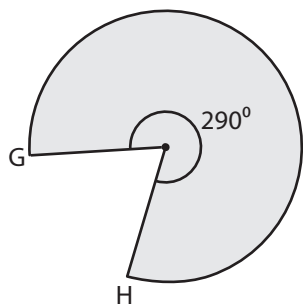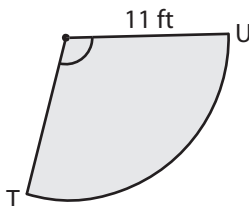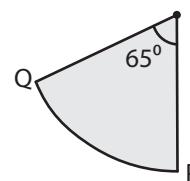
Length of the arc GH = **86 yd**

8) Area = 110.82 ft²

11 ft
U
T

Length of the arc TU = **20.15 ft**

9) Area = 20.41 in²

65°
Q
P

Length of the arc PQ = **6.8 in**