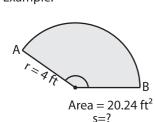
## **Finding Arc Length**

Example:



Area of a sector =  $\frac{\theta \times \pi \times r^2}{360^0}$ 

$$20.24 = \frac{\theta \times 3.14 \times 4 \times 4}{360^{\circ}}$$

$$\theta = 145^{\circ}$$

Length of the arc AB =  $\frac{\theta \times \pi \times r}{180^{\circ}}$ 

$$=\frac{145^{\circ} \times 3.14 \times 4}{180^{\circ}}$$

= 10.12 ft

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

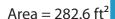
1)



2)



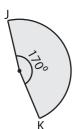
## **PREVIEW**



Length of the arc EF = \_\_\_\_\_

4)

7)



Area = 120.11 y

Length of the arc JK = \_\_\_\_\_

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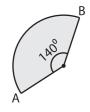
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Area =  $15.26 \text{ in}^2$ 

th of the arc XY =



Area =  $352.90 \text{ in}^2$ 

th of the arc AB =

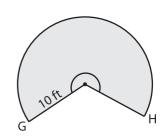


Area =  $51.29 \text{ in}^2$ 



Area =  $139.56 \text{ yd}^2$ 

Length of the arc EF = \_\_\_\_\_ Length of the arc RS = \_\_\_\_\_



Area =  $204.97 \text{ ft}^2$ 

Length of the arc GH =