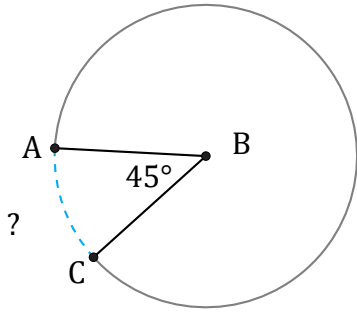


# Arc Lengths and Angles (J)

Name: \_\_\_\_\_

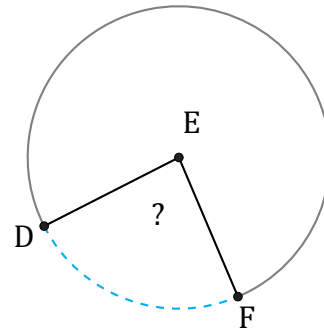
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



Diameter = 2 in

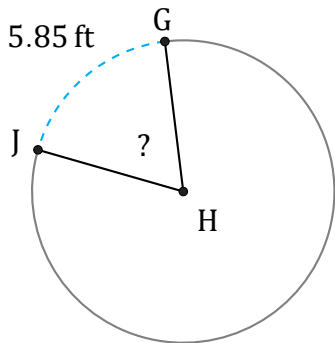
$\widehat{AC} =$



129.08 cm

Diameter = 172 cm

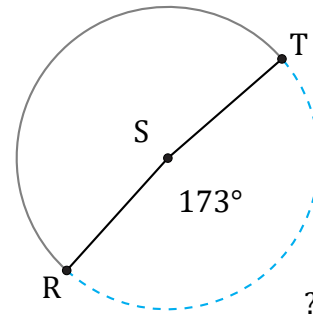
$\angle DEF =$



5.85 ft

Diameter = 10 ft

$\angle GHJ =$



173°

Diameter = 18 AU

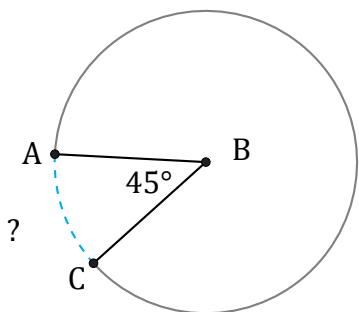
$\widehat{RT} =$

# Arc Lengths and Angles (J) Answers

Name: \_\_\_\_\_

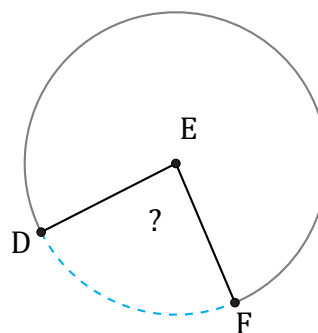
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



Diameter = 2 in

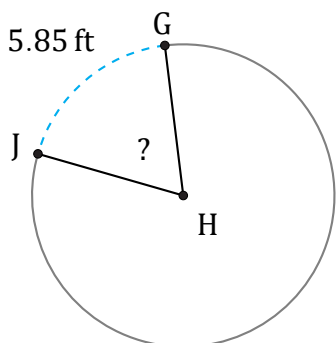
$$\widehat{AC} = \frac{45}{360} \times \pi \times 2 = 0.79 \text{ in}$$



129.08 cm

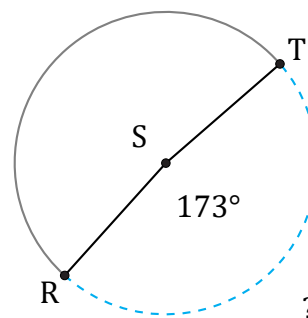
Diameter = 172 cm

$$\angle DEF = \frac{129.08}{172 \times \pi} \times 360 = 86^\circ$$



Diameter = 10 ft

$$\angle GHJ = \frac{5.85}{10 \times \pi} \times 360 = 67^\circ$$



Diameter = 18 AU

$$\widehat{RT} = \frac{173}{360} \times \pi \times 18 = 27.17 \text{ AU}$$