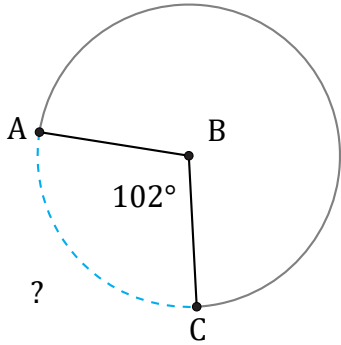


Arc Lengths and Angles (C)

Name: _____

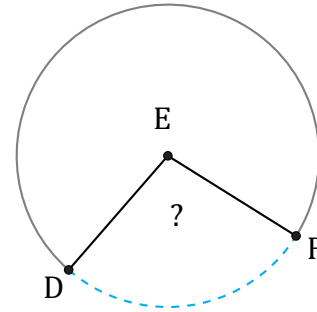
Date: _____

Calculate each arc length or angle measurement.



Radius = 54 cm

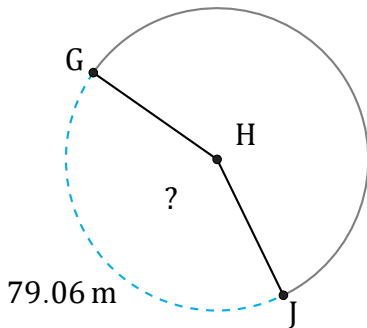
$\widehat{AC} =$



6.91 AU

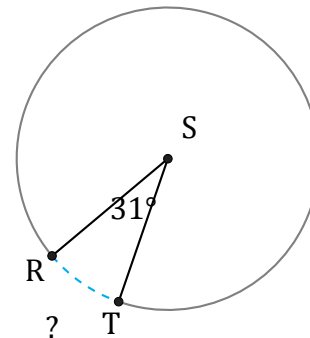
Diameter = 8 AU

$\angle DEF =$



Diameter = 60 m

$\angle GHJ =$



Radius = 7 mi

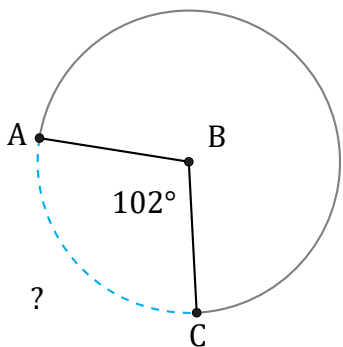
$\widehat{RT} =$

Arc Lengths and Angles (C) Answers

Name: _____

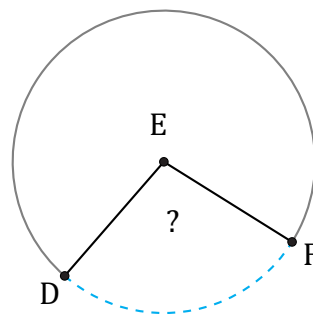
Date: _____

Calculate each arc length or angle measurement.



Radius = 54 cm

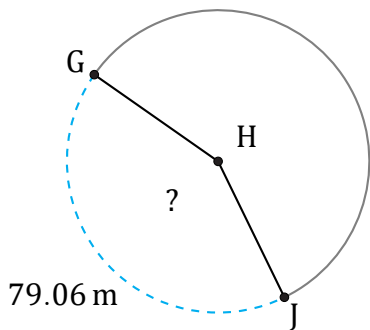
$$\widehat{AC} = \frac{102}{360} \times \pi \times 54 \times 2 = 96.13 \text{ cm}$$



6.91 AU

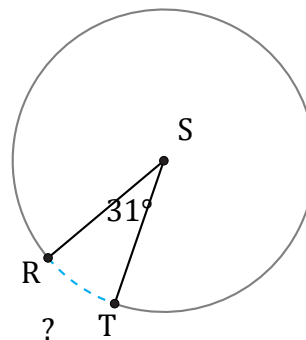
Diameter = 8 AU

$$\angle DEF = \frac{6.91}{8 \times \pi} \times 360 = 99^\circ$$



Diameter = 60 m

$$\angle GHJ = \frac{79.06}{60 \times \pi} \times 360 = 151^\circ$$



Radius = 7 mi

$$\widehat{RT} = \frac{31}{360} \times \pi \times 7 \times 2 = 3.79 \text{ mi}$$