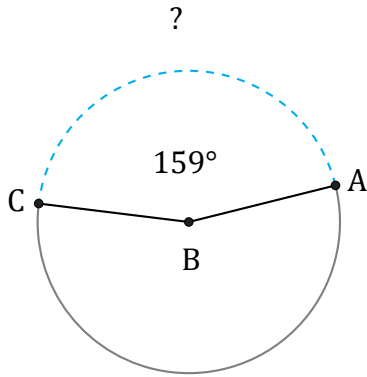


Arc Lengths and Angles (I)

Name: _____

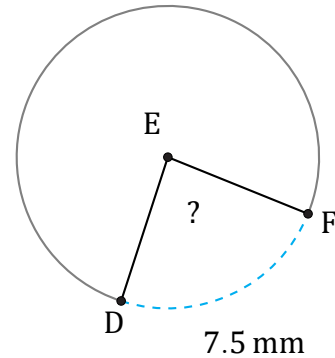
Date: _____

Calculate each arc length or angle measurement.



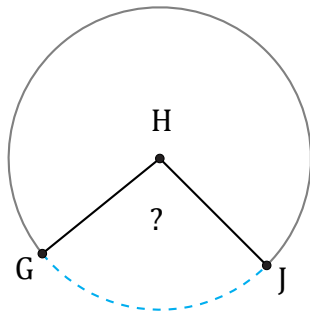
Radius = 29 mi

$\widehat{AC} =$



Radius = 5 mm

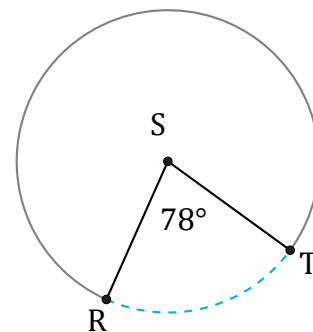
$\angle DEF =$



542.87 mm

Circumference = 2035.75 mm

$\angle GHJ =$



Diameter = 2 mm

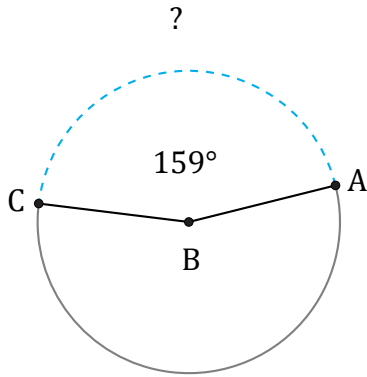
$\widehat{RT} =$

Arc Lengths and Angles (I) Answers

Name: _____

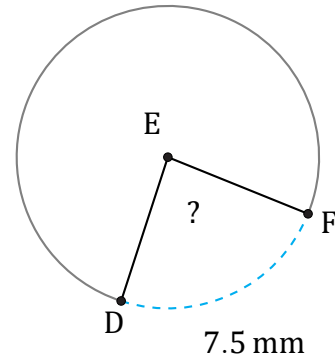
Date: _____

Calculate each arc length or angle measurement.



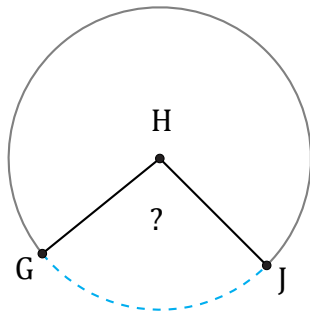
Radius = 29 mi

$$\widehat{AC} = \frac{159}{360} \times \pi \times 29 \times 2 = 80.48 \text{ mi}$$



Radius = 5 mm

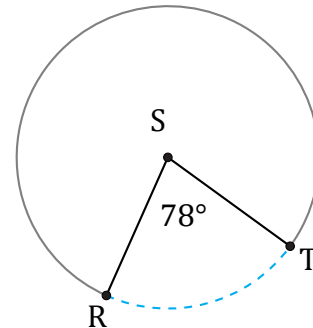
$$\angle DEF = \frac{7.5}{5 \times \pi \times 2} \times 360 = 85.9^\circ$$



542.87 mm

Circumference = 2035.75 mm

$$\angle GHJ = \frac{542.87}{2035.75} \times 360 = 96^\circ$$



Diameter = 2 mm

$$\widehat{RT} = \frac{78}{360} \times \pi \times 2 = 1.36 \text{ mm}$$