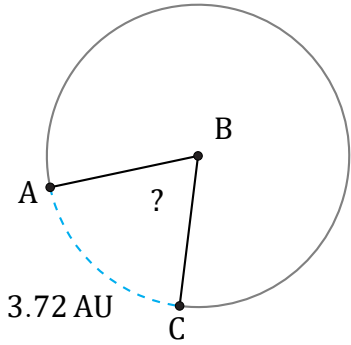


Arc Lengths and Angles (J)

Name: _____

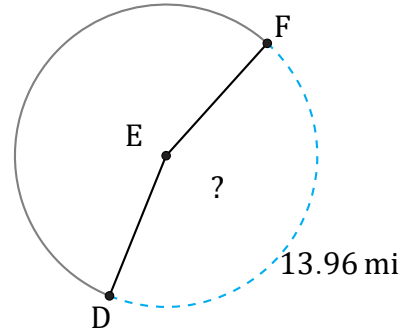
Date: _____

Calculate each arc length or angle measurement.



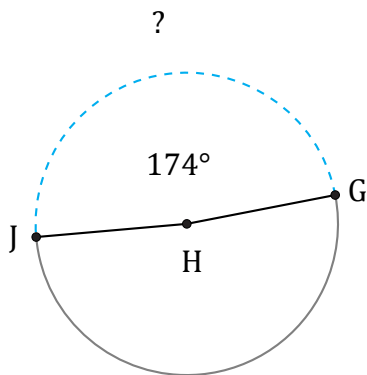
Radius = 3 AU

$\angle ABC =$



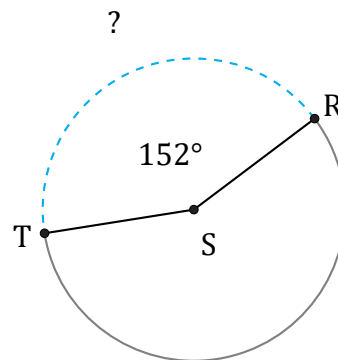
Radius = 5 mi

$\angle DEF =$



Radius = 98 in

$\widehat{GJ} =$



Radius = 9 mi

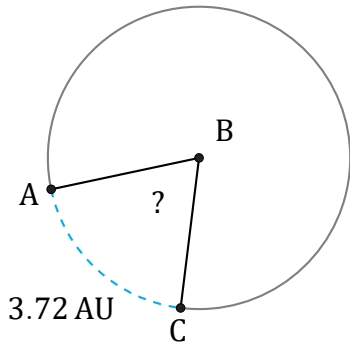
$\widehat{RT} =$

Arc Lengths and Angles (J) Answers

Name: _____

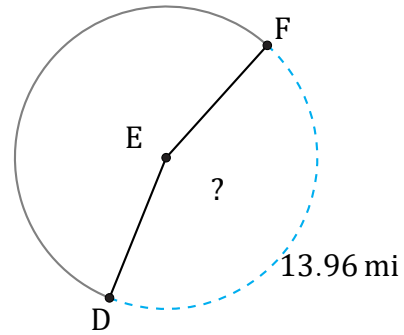
Date: _____

Calculate each arc length or angle measurement.



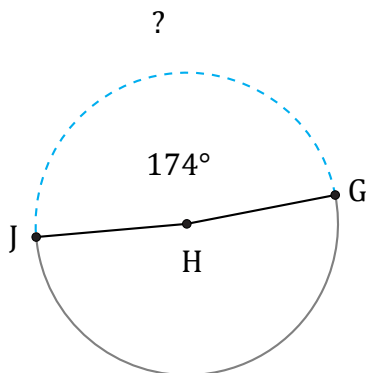
Radius = 3 AU

$$\angle ABC = \frac{3.72}{3 \times \pi \times 2} \times 360 = 71^\circ$$



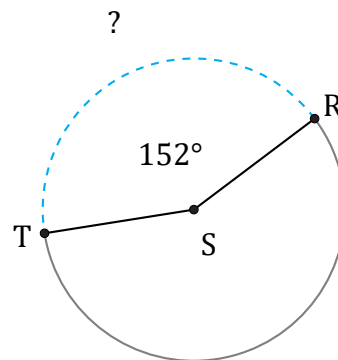
Radius = 5 mi

$$\angle DEF = \frac{13.96}{5 \times \pi \times 2} \times 360 = 160^\circ$$



Radius = 98 in

$$\widehat{GJ} = \frac{174}{360} \times \pi \times 98 \times 2 = 297.61 \text{ in}$$



Radius = 9 mi

$$\widehat{RT} = \frac{152}{360} \times \pi \times 9 \times 2 = 23.88 \text{ mi}$$