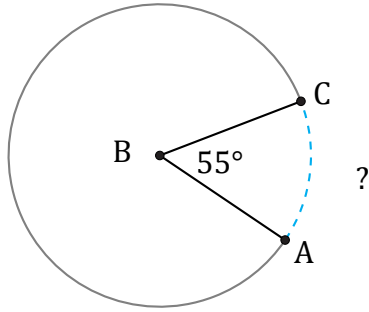


Arc Lengths and Angles (A)

Name: _____

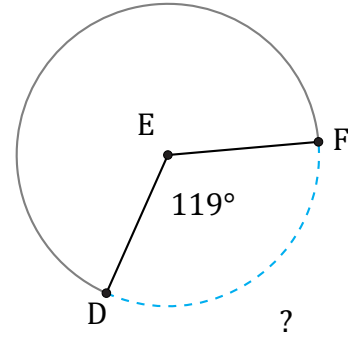
Date: _____

Calculate each arc length or angle measurement.



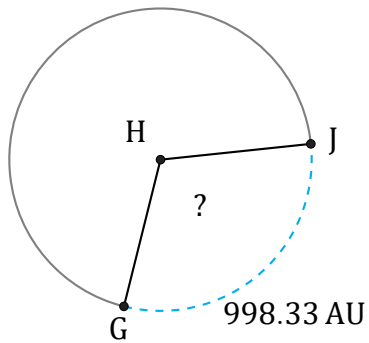
Radius = 925 in

$\widehat{AC} =$



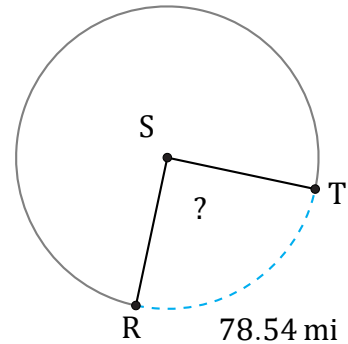
Diameter = 24 mm

$\widehat{DF} =$



Radius = 520 AU

$\angle GHJ =$



Diameter = 100 mi

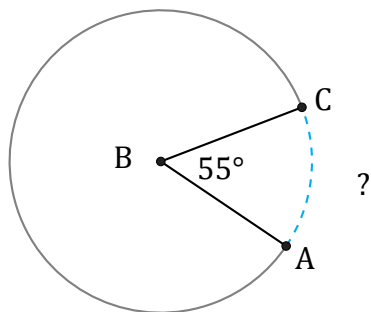
$\angle RST =$

Arc Lengths and Angles (A) Answers

Name: _____

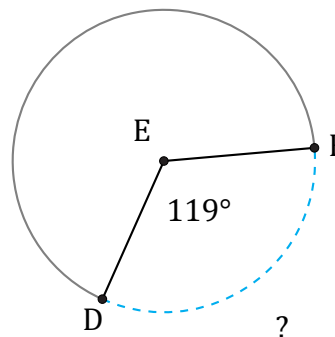
Date: _____

Calculate each arc length or angle measurement.



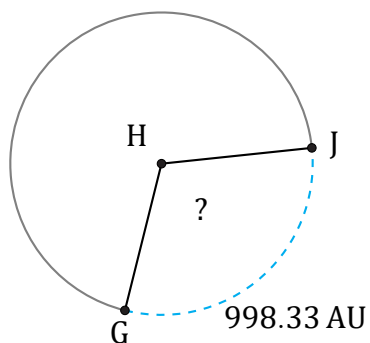
Radius = 925 in

$$\widehat{AC} = \frac{55}{360} \times \pi \times 925 \times 2 = 887.94 \text{ in}$$



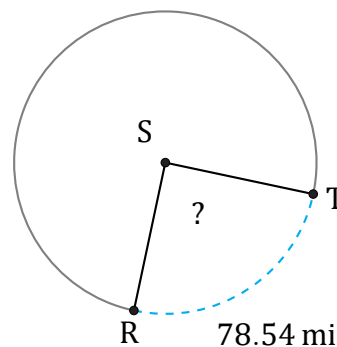
Diameter = 24 mm

$$\widehat{DF} = \frac{119}{360} \times \pi \times 24 = 24.92 \text{ mm}$$



Radius = 520 AU

$$\angle GHJ = \frac{998.33}{520 \times \pi \times 2} \times 360 = 110^\circ$$



Diameter = 100 mi

$$\angle RST = \frac{78.54}{100 \times \pi} \times 360 = 90^\circ$$