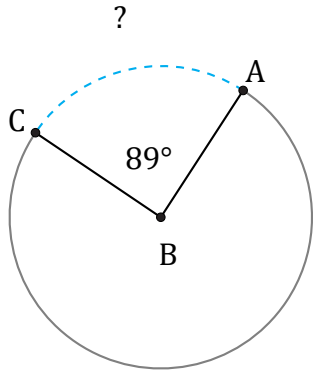


Arc Lengths and Angles (I)

Name: _____

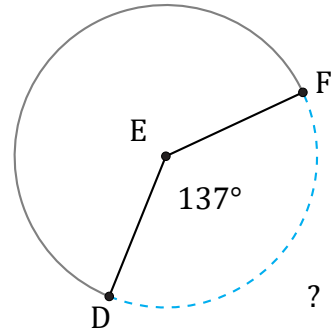
Date: _____

Calculate each arc length or angle measurement.



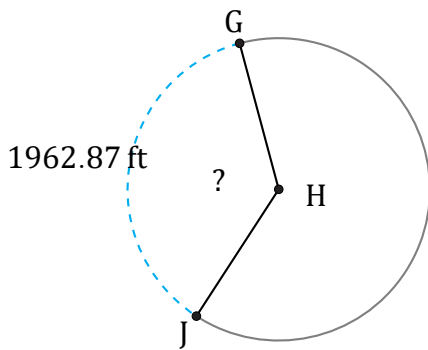
Radius = 7 km

$\widehat{AC} =$



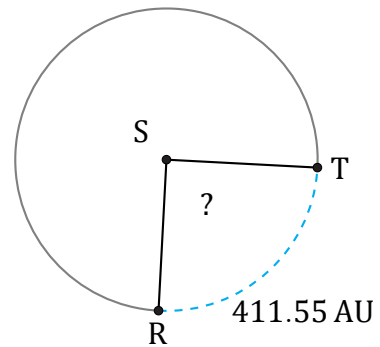
Diameter = 188 ft

$\widehat{DF} =$



Diameter = 1704 ft

$\angle GHJ =$



Radius = 262 AU

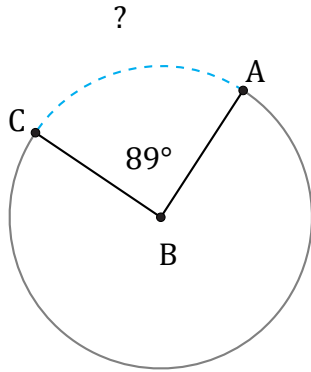
$\angle RST =$

Arc Lengths and Angles (I) Answers

Name: _____

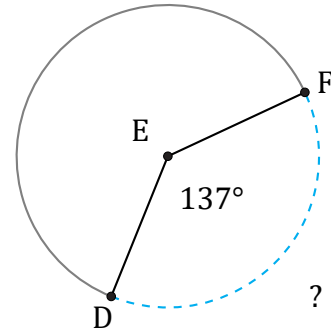
Date: _____

Calculate each arc length or angle measurement.



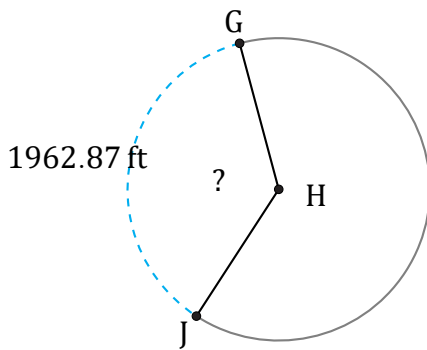
Radius = 7 km

$$\widehat{AC} = \frac{89}{360} \times \pi \times 7 \times 2 = 10.87 \text{ km}$$



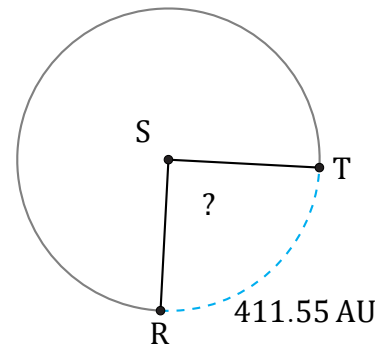
Diameter = 188 ft

$$\widehat{DF} = \frac{137}{360} \times \pi \times 188 = 224.76 \text{ ft}$$



Diameter = 1704 ft

$$\angle GHJ = \frac{1962.87}{1704 \times \pi} \times 360 = 132^\circ$$



Radius = 262 AU

$$\angle RST = \frac{411.55}{262 \times \pi \times 2} \times 360 = 90^\circ$$