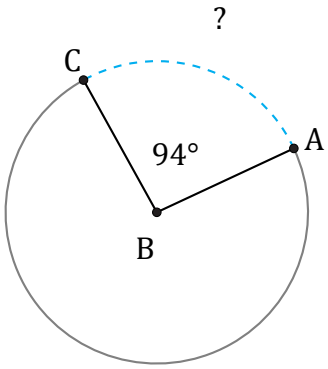
Arc Lengths and Angles (D)

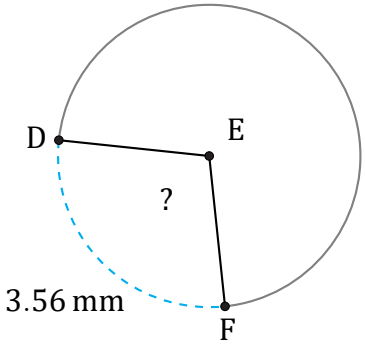
Name: _____ Date: _____

Calculate each arc length or angle measurement.



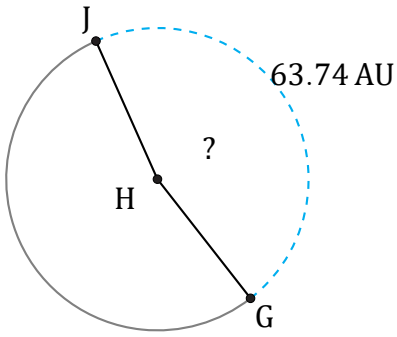
Diameter = 8 ft

$\overset{\frown}{AC}$ =



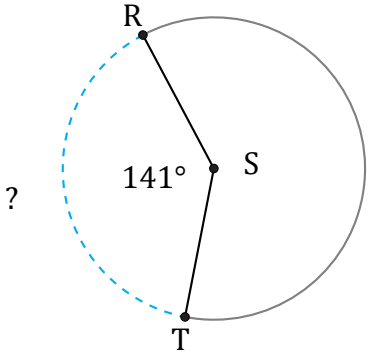
Radius = 2 mm

∠DEF =



Radius = 22 AU

∠GHJ =



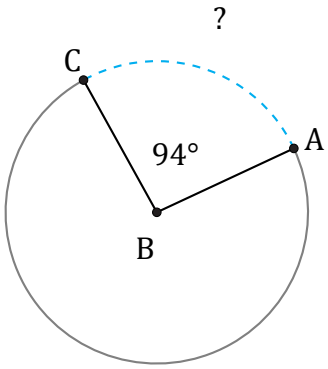
Diameter = 114 in

$\overset{\frown}{RT}$ =

Arc Lengths and Angles (D) Answers

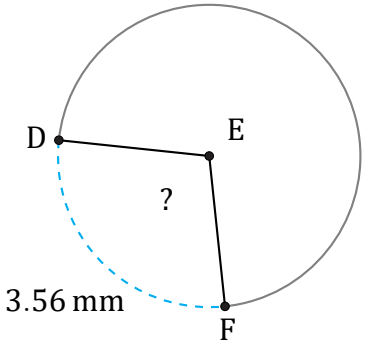
Name: _____ Date: _____

Calculate each arc length or angle measurement.



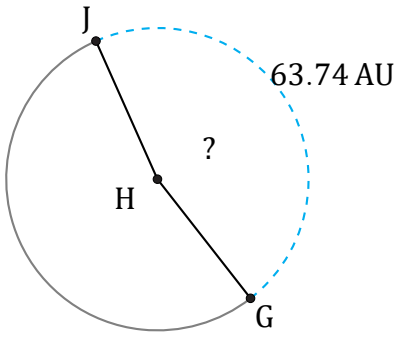
Diameter = 8 ft

$\overset{\frown}{AC} = \frac{94}{360} \times \pi \times 8 = 6.56 \text{ ft}$



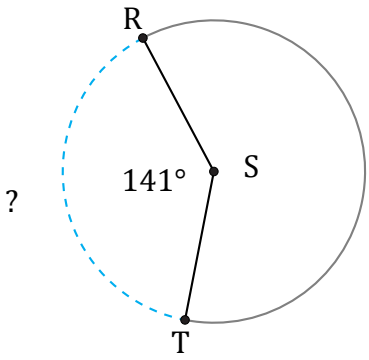
Radius = 2 mm

$\angle DEF = \frac{3.56}{2 \times \pi \times 2} \times 360 = 102°$



Radius = 22 AU

$\angle GHJ = \frac{63.74}{22 \times \pi \times 2} \times 360 = 166°$



Diameter = 114 in

$\overset{\frown}{RT} = \frac{141}{360} \times \pi \times 114 = 140.27 \text{ in}$