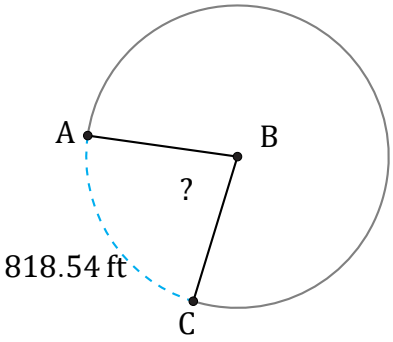
Arc Lengths and Angles (B)

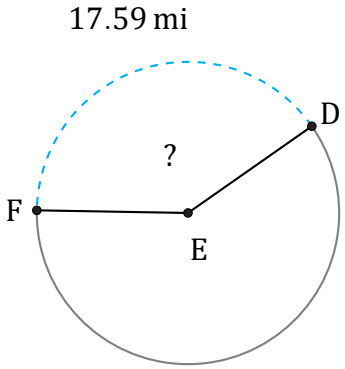
Name: _____ Date: _____

Calculate each arc length or angle measurement.



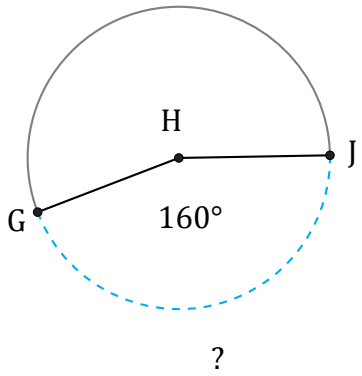
Diameter = 1158 ft

∠ABC =



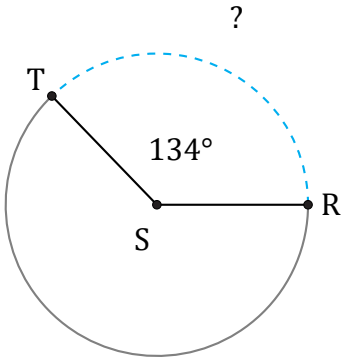
Circumference = 43.98 mi

∠DEF =



Radius = 3 ft

$\overset{\frown}{GJ}$ =



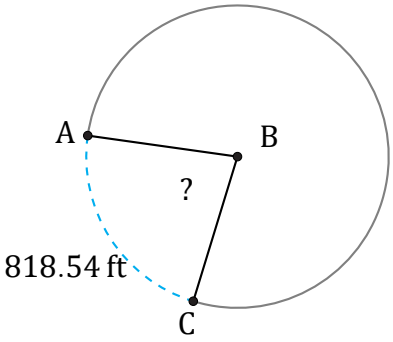
Circumference = 3166.73 in

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

Arc Lengths and Angles (B) Answers

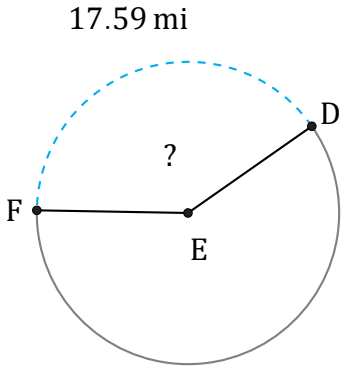
Name: _____ Date: _____

Calculate each arc length or angle measurement.



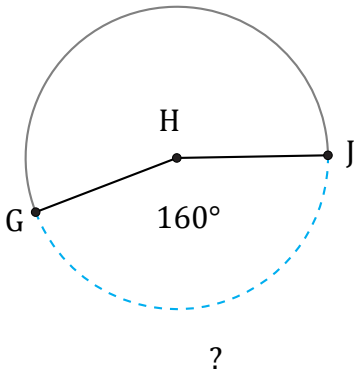
Diameter = 1158 ft

$\angle ABC = \frac{818.54}{1158 \times \pi} \times 360 = 81°$



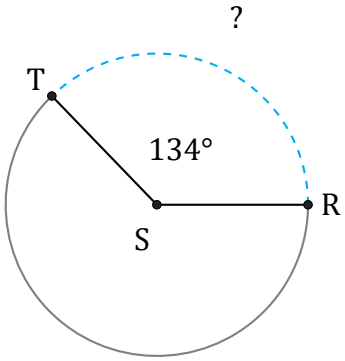
Circumference = 43.98 mi

$\angle DEF = \frac{17.59}{43.98} \times 360 = 144°$



Radius = 3 ft

$\overset{\frown}{GJ} = \frac{160}{360} \times \pi \times 3 \times 2 = 8.38 \text{ ft}$



Circumference = 3166.73 in

$\overset{\frown}{RT} = \frac{134}{360} \times 3166.73 = 1178.73 \text{ in}$