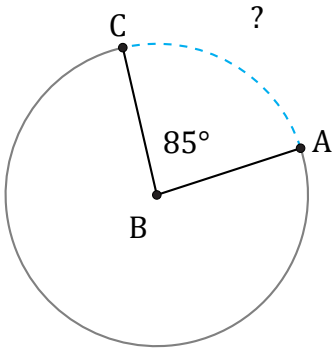
Arc Lengths and Angles (F)

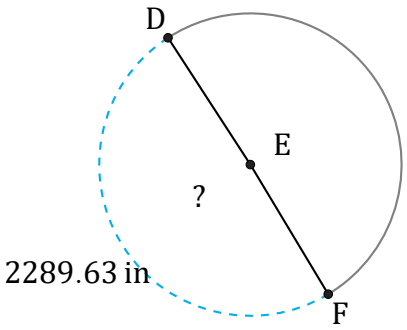
Name: _____ Date: _____

Calculate each arc length or angle measurement.



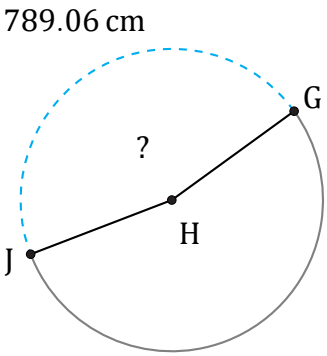
Diameter = 1086 ft

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



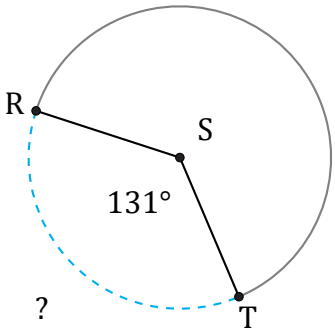
Radius = 737 in

∠DEF =



Diameter = 548 cm

∠GHJ =



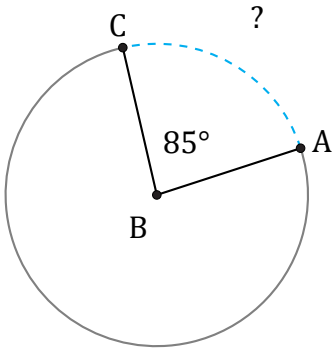
Radius = 10 cm

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

Arc Lengths and Angles (F) Answers

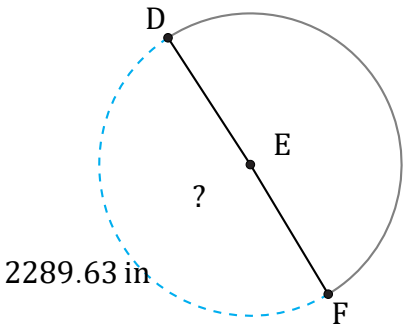
Name: _____ Date: _____

Calculate each arc length or angle measurement.



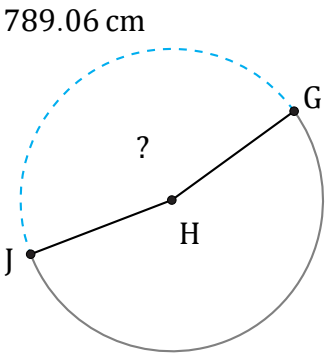
Diameter = 1086 ft

$\overset{\frown}{AC} = \frac{85}{360} \times \pi \times 1086 = 805.56$ ft



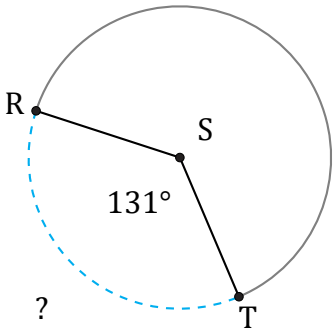
Radius = 737 in

$\angle DEF = \frac{2289.63}{737 \times \pi \times 2} \times 360 = 178°$



Diameter = 548 cm

$\angle GHJ = \frac{789.06}{548 \times \pi} \times 360 = 165°$



Radius = 10 cm

$\overset{\frown}{RT} = \frac{131}{360} \times \pi \times 10 \times 2 = 22.86$ cm