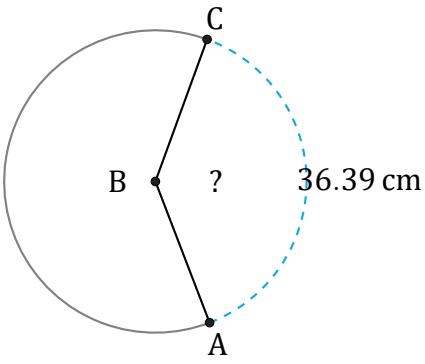
Arc Lengths and Angles (F)

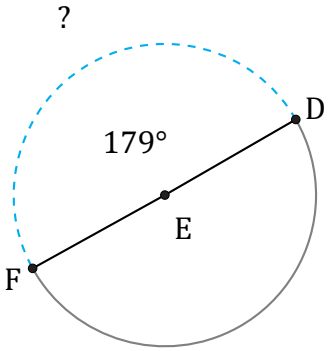
Name: _____ Date: _____

Calculate each arc length or angle measurement.



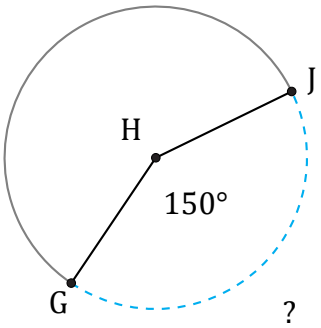
Radius = 15 cm

∠ABC =



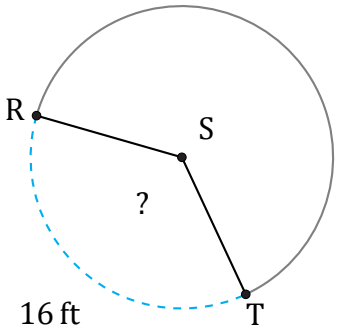
Radius = 138 m

$\overset{\frown}{DF}$ =



Radius = 2 mm

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



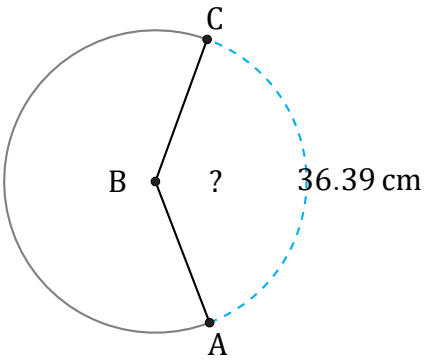
Radius = 7 ft

∠RST =

Arc Lengths and Angles (F) Answers

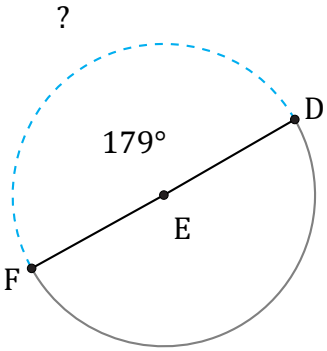
Name: _____ Date: _____

Calculate each arc length or angle measurement.



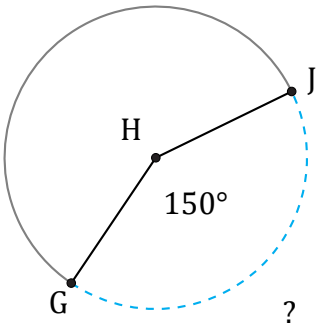
Radius = 15 cm

$\angle ABC = \frac{36.39}{15 \times \pi \times 2} \times 360 = 139°$



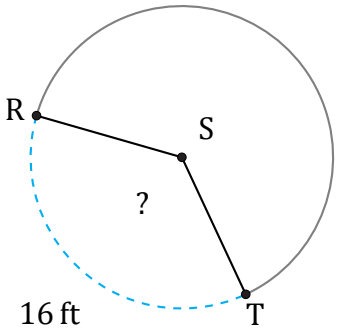
Radius = 138 m

$\overset{\frown}{DF} = \frac{179}{360} \times \pi \times 138 \times 2 = 431.13 \text{ m}$



Radius = 2 mm

$\overset{\frown}{GJ} = \frac{150}{360} \times \pi \times 2 \times 2 = 5.24 \text{ mm}$



Radius = 7 ft

$\angle RST = \frac{16}{7 \times \pi \times 2} \times 360 = 131°$