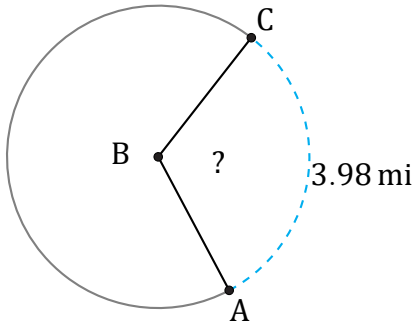


# Arc Lengths and Angles (A)

Name: \_\_\_\_\_

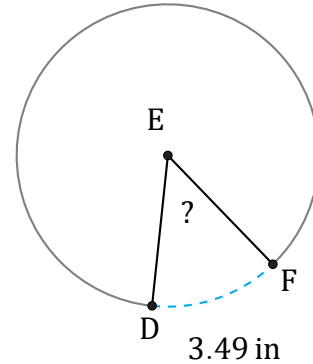
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



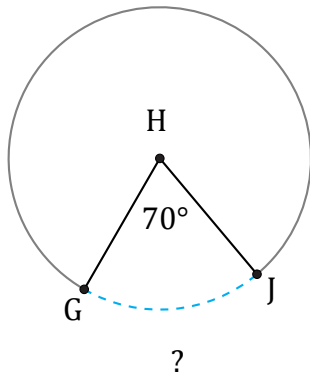
Diameter = 4 mi

$\angle ABC =$



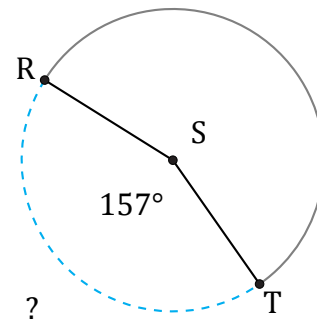
Circumference = 25.13 in

$\angle DEF =$



Radius = 35 in

$\widehat{GJ} =$



Circumference = 873.36 mm

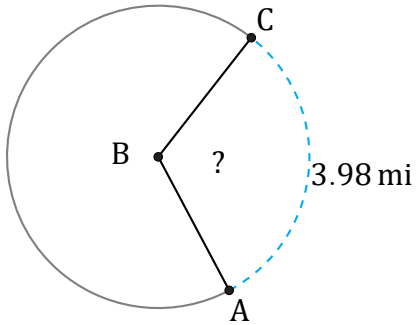
$\widehat{RT} =$

# Arc Lengths and Angles (A) Answers

Name: \_\_\_\_\_

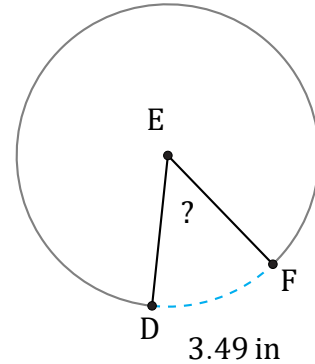
Date: \_\_\_\_\_

Calculate each arc length or angle measurement.



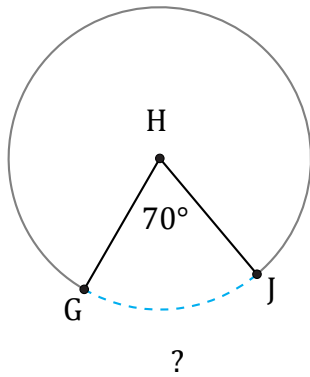
Diameter = 4 mi

$$\angle ABC = \frac{3.98}{4 \times \pi} \times 360 = 114^\circ$$



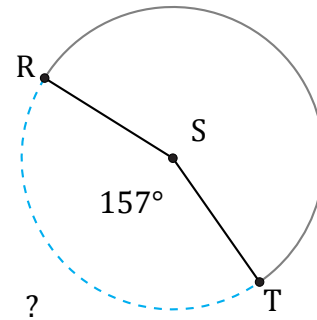
Circumference = 25.13 in

$$\angle DEF = \frac{3.49}{25.13} \times 360 = 50^\circ$$



Radius = 35 in

$$\widehat{GJ} = \frac{70}{360} \times \pi \times 35 \times 2 = 42.76 \text{ in}$$



Circumference = 873.36 mm

$$\widehat{RT} = \frac{157}{360} \times 873.36 = 380.88 \text{ mm}$$