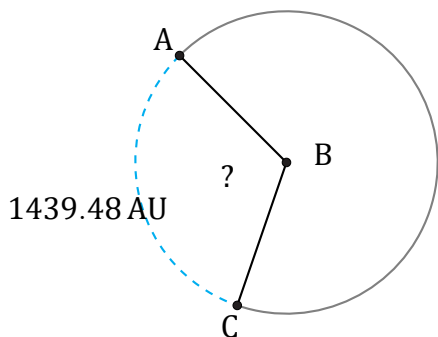


Arc Angles (A)

Name: _____

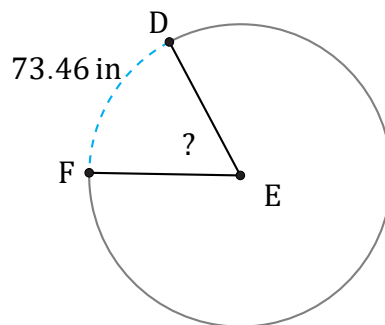
Date: _____

Calculate each arc angle measurement.



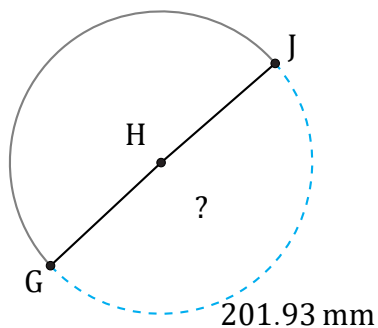
Radius = 711 AU

$\angle ABC =$



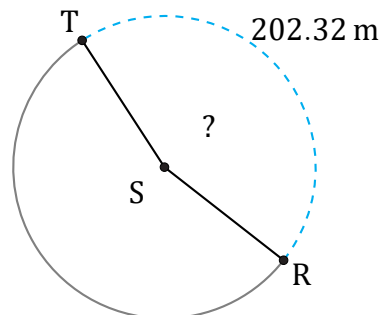
Radius = 69 in

$\angle DEF =$



Radius = 65 mm

$\angle GHJ =$



Radius = 72 m

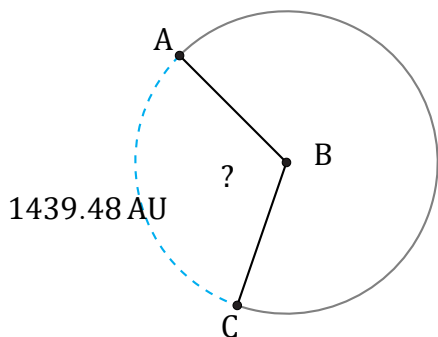
$\angle RST =$

Arc Angles (A) Answers

Name: _____

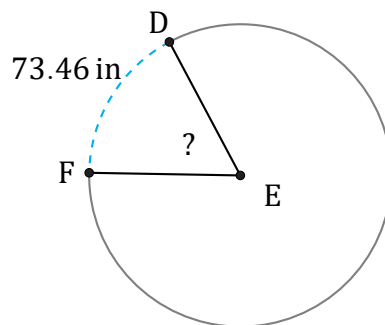
Date: _____

Calculate each arc angle measurement.



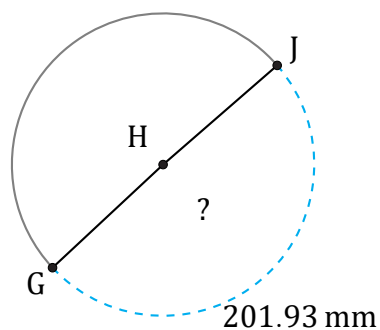
Radius = 711 AU

$$\angle ABC = \frac{1439.48}{711 \times \pi \times 2} \times 360 = 116^\circ$$



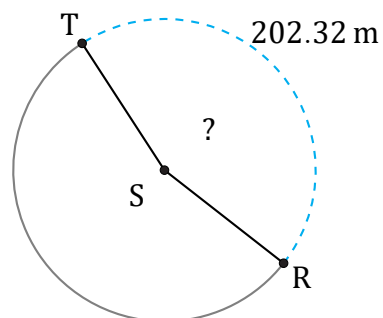
Radius = 69 in

$$\angle DEF = \frac{73.46}{69 \times \pi \times 2} \times 360 = 61^\circ$$



Radius = 65 mm

$$\angle GHJ = \frac{201.93}{65 \times \pi \times 2} \times 360 = 178^\circ$$



Radius = 72 m

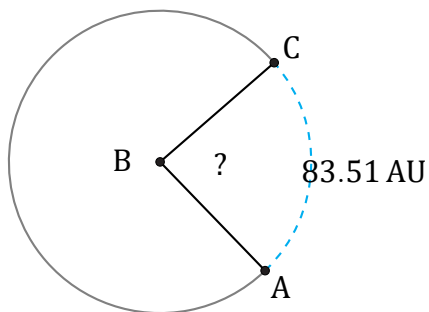
$$\angle RST = \frac{202.32}{72 \times \pi \times 2} \times 360 = 161^\circ$$

Arc Angles (B)

Name: _____

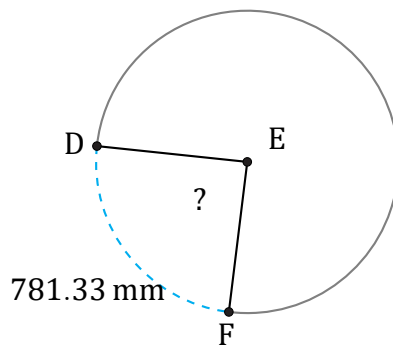
Date: _____

Calculate each arc angle measurement.



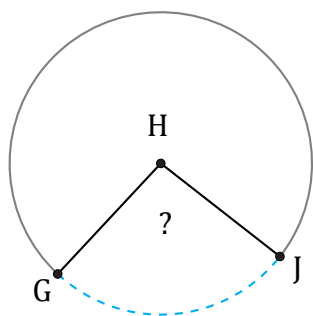
Radius = 55 AU

$\angle ABC =$



Radius = 503 mm

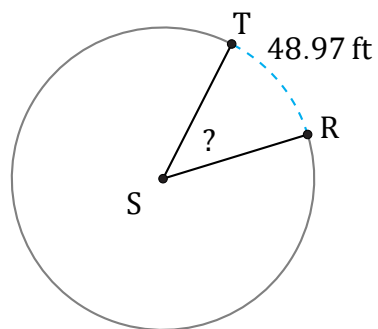
$\angle DEF =$



102.8 mi

Radius = 62 mi

$\angle GHJ =$



Radius = 61 ft

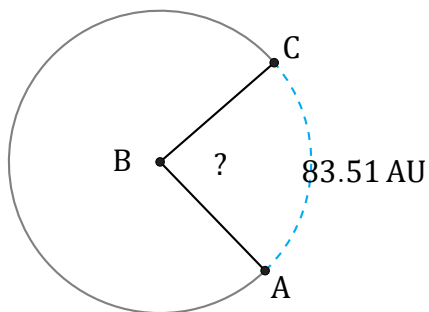
$\angle RST =$

Arc Angles (B) Answers

Name: _____

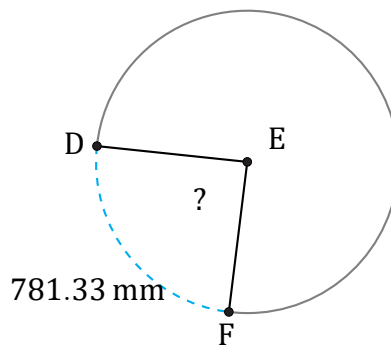
Date: _____

Calculate each arc angle measurement.



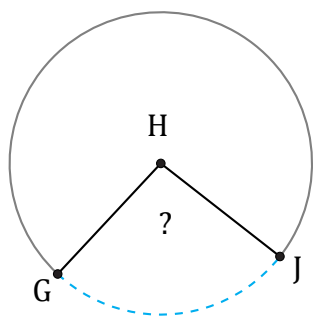
Radius = 55 AU

$$\angle ABC = \frac{83.51}{55 \times \pi \times 2} \times 360 = 87^\circ$$



Radius = 503 mm

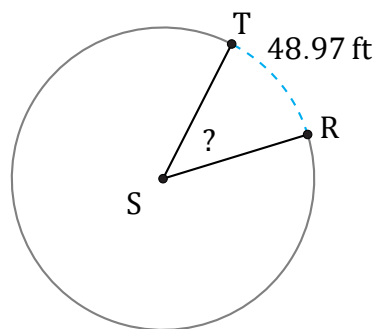
$$\angle DEF = \frac{781.33}{503 \times \pi \times 2} \times 360 = 89^\circ$$



102.8 mi

Radius = 62 mi

$$\angle GHJ = \frac{102.8}{62 \times \pi \times 2} \times 360 = 95^\circ$$



Radius = 61 ft

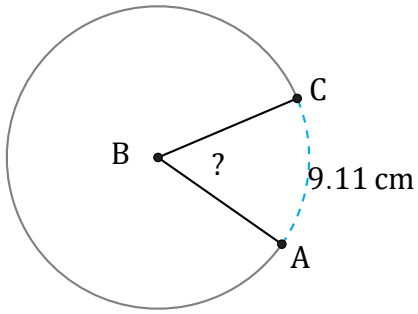
$$\angle RST = \frac{48.97}{61 \times \pi \times 2} \times 360 = 46^\circ$$

Arc Angles (C)

Name: _____

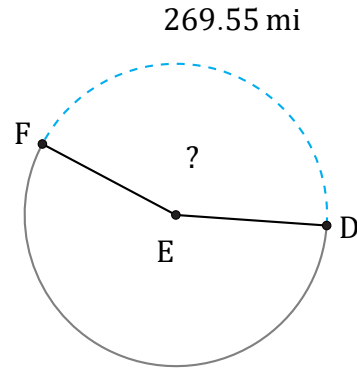
Date: _____

Calculate each arc angle measurement.



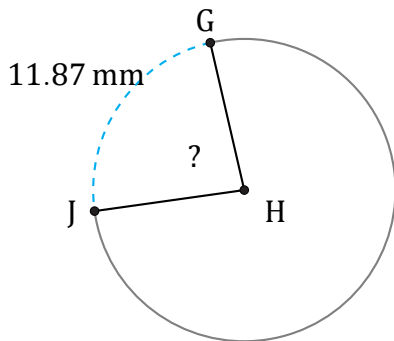
Radius = 9 cm

$\angle ABC =$



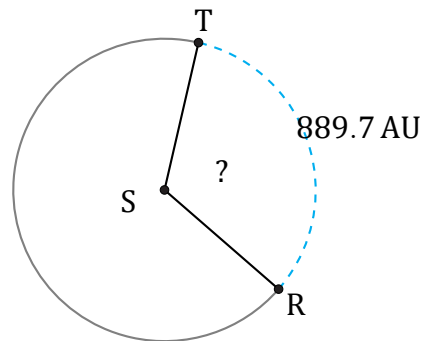
Radius = 99 mi

$\angle DEF =$



Radius = 8 mm

$\angle GHJ =$



Radius = 432 AU

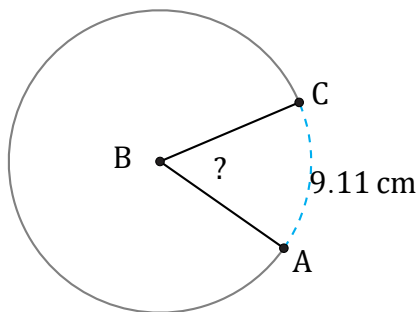
$\angle RST =$

Arc Angles (C) Answers

Name: _____

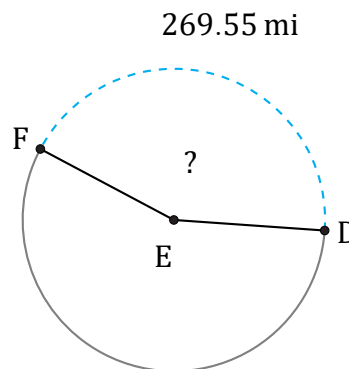
Date: _____

Calculate each arc angle measurement.



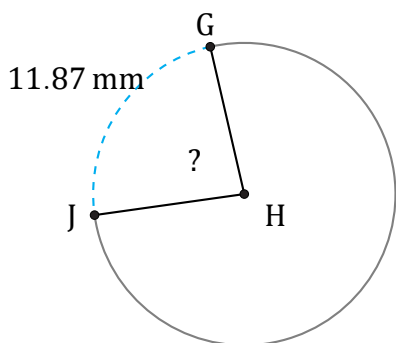
Radius = 9 cm

$$\angle ABC = \frac{9.11}{9 \times \pi \times 2} \times 360 = 58^\circ$$



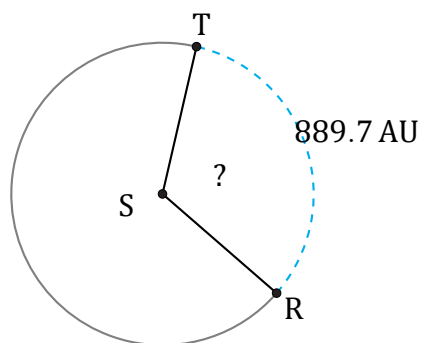
Radius = 99 mi

$$\angle DEF = \frac{269.55}{99 \times \pi \times 2} \times 360 = 156^\circ$$



Radius = 8 mm

$$\angle GHJ = \frac{11.87}{8 \times \pi \times 2} \times 360 = 85^\circ$$



Radius = 432 AU

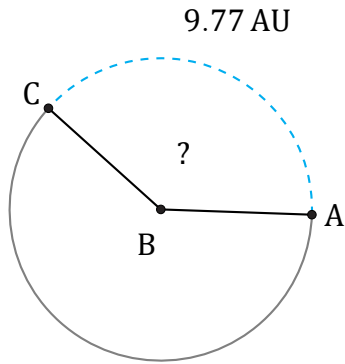
$$\angle RST = \frac{889.7}{432 \times \pi \times 2} \times 360 = 118^\circ$$

Arc Angles (D)

Name: _____

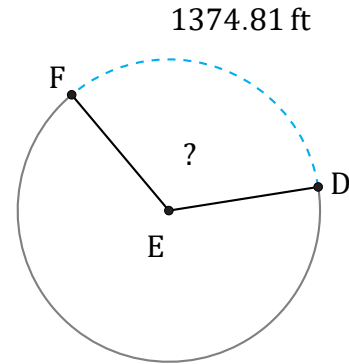
Date: _____

Calculate each arc angle measurement.



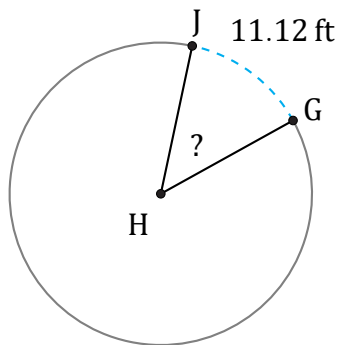
Radius = 4 AU

$\angle ABC =$



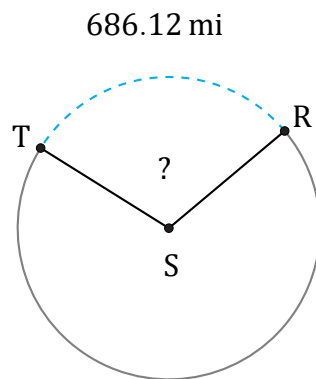
Radius = 651 ft

$\angle DEF =$



Radius = 13 ft

$\angle GHJ =$



Radius = 364 mi

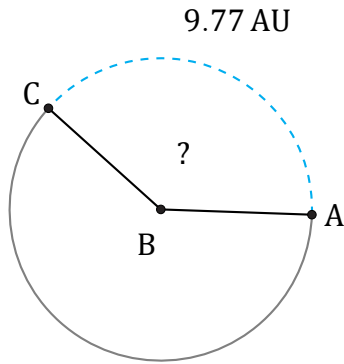
$\angle RST =$

Arc Angles (D) Answers

Name: _____

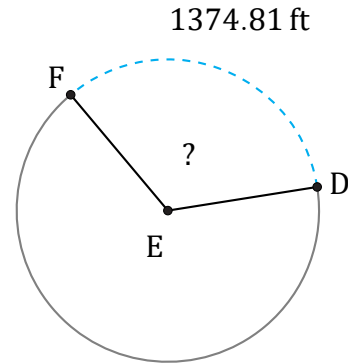
Date: _____

Calculate each arc angle measurement.



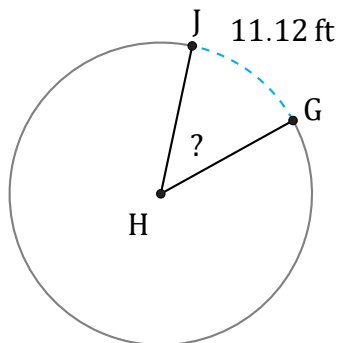
Radius = 4 AU

$$\angle ABC = \frac{9.77}{4 \times \pi \times 2} \times 360 = 139.9^\circ$$



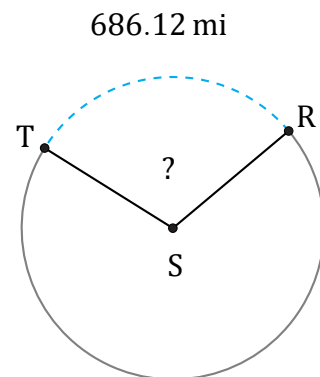
Radius = 651 ft

$$\angle DEF = \frac{1374.81}{651 \times \pi \times 2} \times 360 = 121^\circ$$



Radius = 13 ft

$$\angle GHJ = \frac{11.12}{13 \times \pi \times 2} \times 360 = 49^\circ$$



Radius = 364 mi

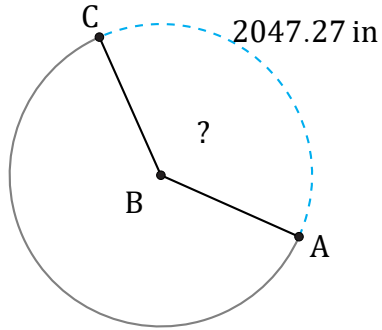
$$\angle RST = \frac{686.12}{364 \times \pi \times 2} \times 360 = 108^\circ$$

Arc Angles (E)

Name: _____

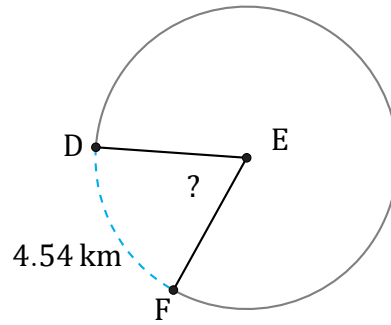
Date: _____

Calculate each arc angle measurement.



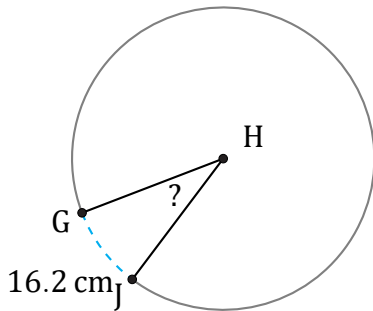
Radius = 850 in

$\angle ABC =$



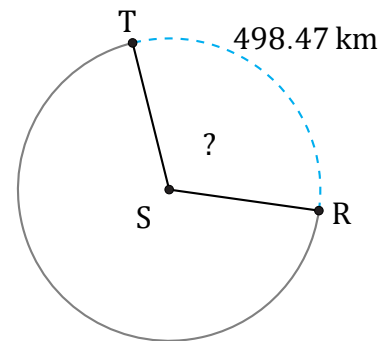
Radius = 4 km

$\angle DEF =$



Radius = 29 cm

$\angle GHJ =$



Radius = 255 km

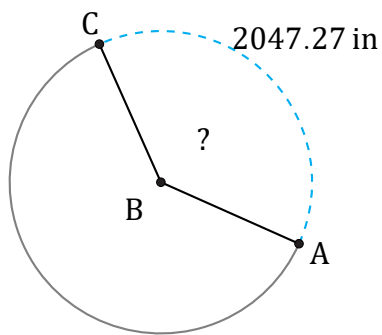
$\angle RST =$

Arc Angles (E) Answers

Name: _____

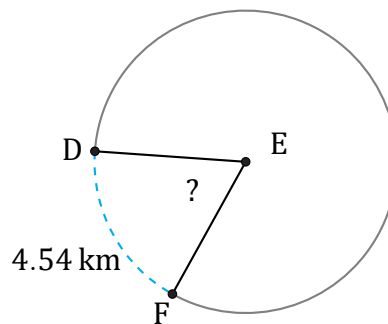
Date: _____

Calculate each arc angle measurement.



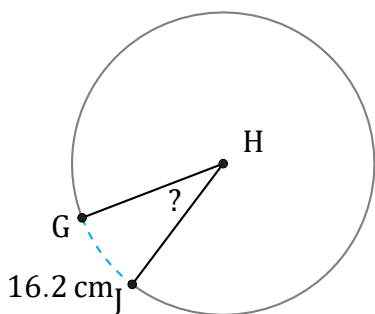
Radius = 850 in

$$\angle ABC = \frac{2047.27}{850 \times \pi \times 2} \times 360 = 138^\circ$$



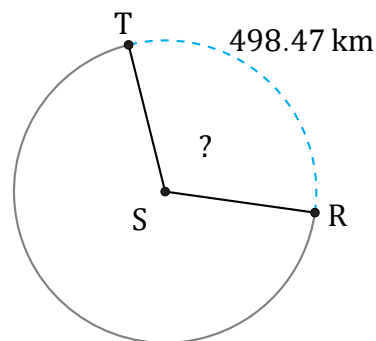
Radius = 4 km

$$\angle DEF = \frac{4.54}{4 \times \pi \times 2} \times 360 = 65^\circ$$



Radius = 29 cm

$$\angle GHJ = \frac{16.2}{29 \times \pi \times 2} \times 360 = 32^\circ$$



Radius = 255 km

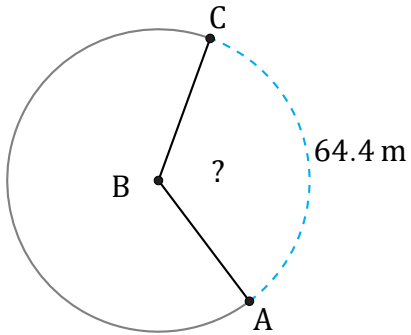
$$\angle RST = \frac{498.47}{255 \times \pi \times 2} \times 360 = 112^\circ$$

Arc Angles (F)

Name: _____

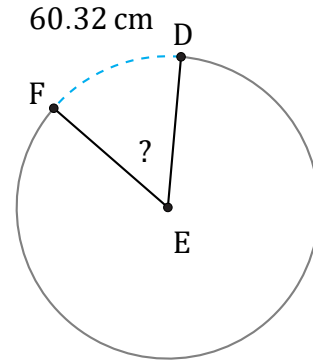
Date: _____

Calculate each arc angle measurement.



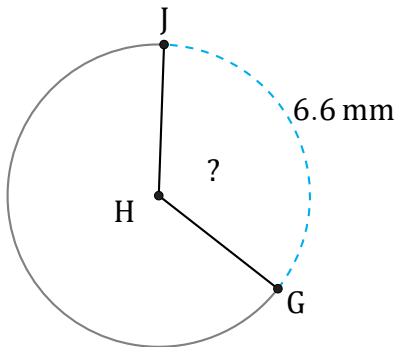
Radius = 30 m

$\angle ABC =$



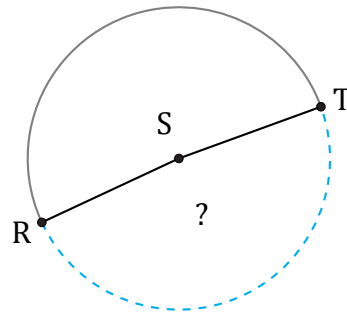
Radius = 64 cm

$\angle DEF =$



Radius = 3 mm

$\angle GHJ =$



Radius = 6 km

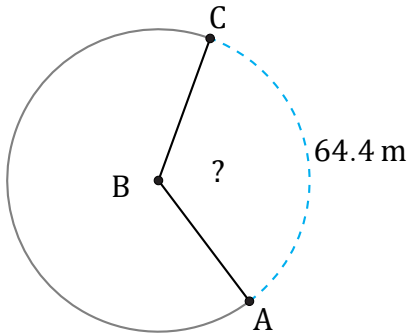
$\angle RST =$

Arc Angles (F) Answers

Name: _____

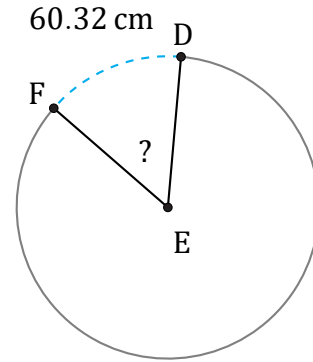
Date: _____

Calculate each arc angle measurement.



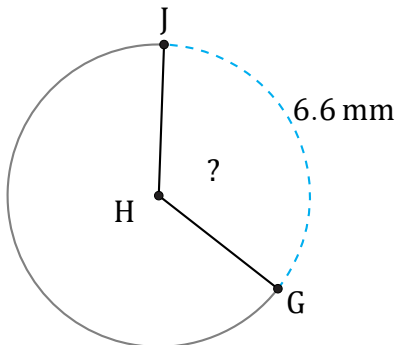
Radius = 30 m

$$\angle ABC = \frac{64.4}{30 \times \pi \times 2} \times 360 = 123^\circ$$



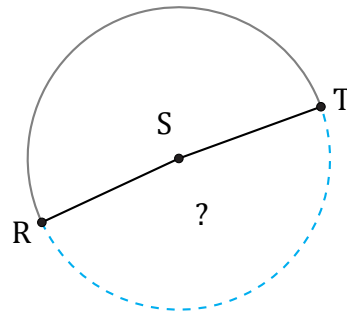
Radius = 64 cm

$$\angle DEF = \frac{60.32}{64 \times \pi \times 2} \times 360 = 54^\circ$$



Radius = 3 mm

$$\angle GHJ = \frac{6.6}{3 \times \pi \times 2} \times 360 = 126.1^\circ$$



Radius = 6 km

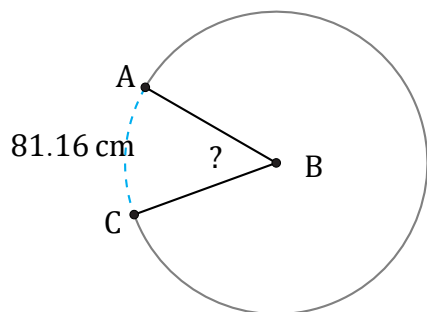
$$\angle RST = \frac{18.33}{6 \times \pi \times 2} \times 360 = 175^\circ$$

Arc Angles (G)

Name: _____

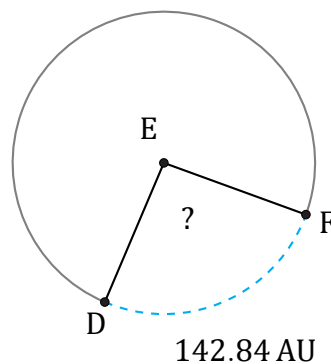
Date: _____

Calculate each arc angle measurement.



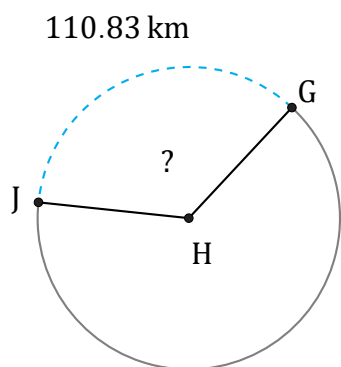
Radius = 93 cm

$\angle ABC =$



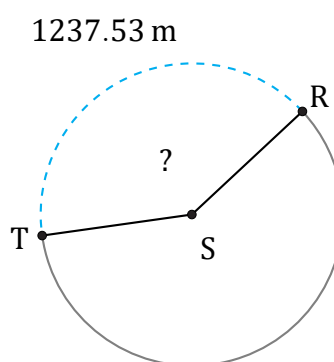
Radius = 88 AU

$\angle DEF =$



Radius = 50 km

$\angle GHJ =$



Radius = 489 m

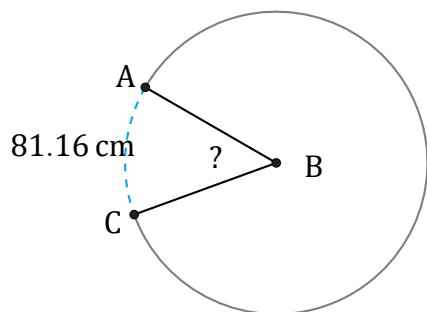
$\angle RST =$

Arc Angles (G) Answers

Name: _____

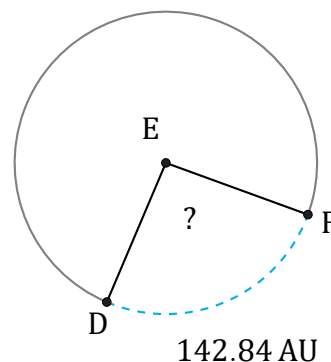
Date: _____

Calculate each arc angle measurement.



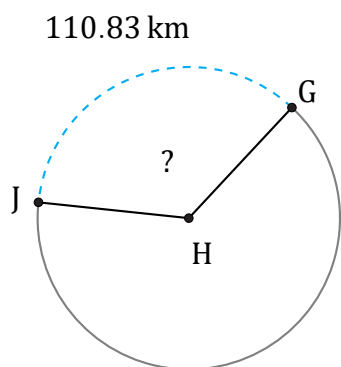
Radius = 93 cm

$$\angle ABC = \frac{81.16}{93 \times \pi \times 2} \times 360 = 50^\circ$$



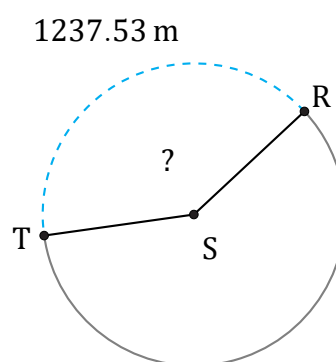
Radius = 88 AU

$$\angle DEF = \frac{142.84}{88 \times \pi \times 2} \times 360 = 93^\circ$$



Radius = 50 km

$$\angle GHJ = \frac{110.83}{50 \times \pi \times 2} \times 360 = 127^\circ$$



Radius = 489 m

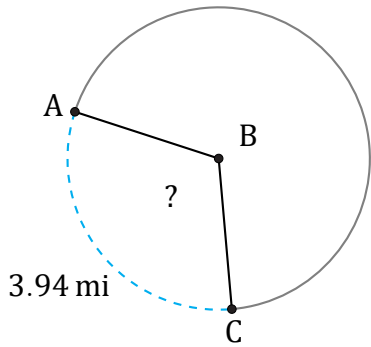
$$\angle RST = \frac{1237.53}{489 \times \pi \times 2} \times 360 = 145^\circ$$

Arc Angles (H)

Name: _____

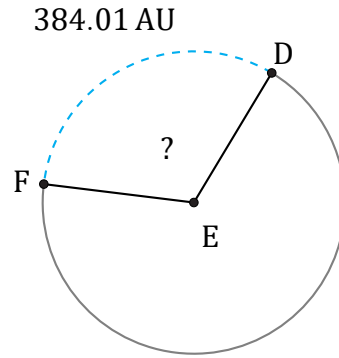
Date: _____

Calculate each arc angle measurement.



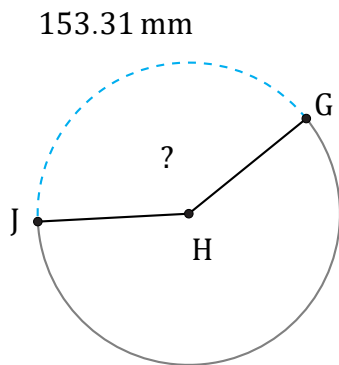
Radius = 2 mi

$\angle ABC =$



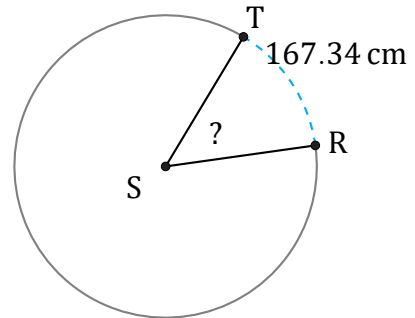
Radius = 193 AU

$\angle DEF =$



Radius = 61 mm

$\angle GHJ =$



Radius = 188 cm

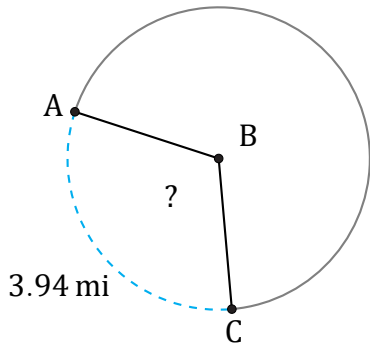
$\angle RST =$

Arc Angles (H) Answers

Name: _____

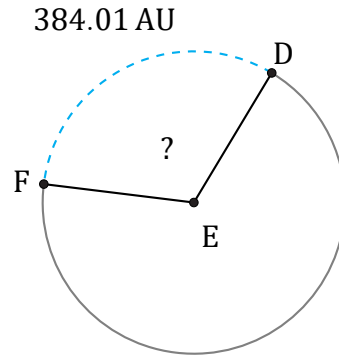
Date: _____

Calculate each arc angle measurement.



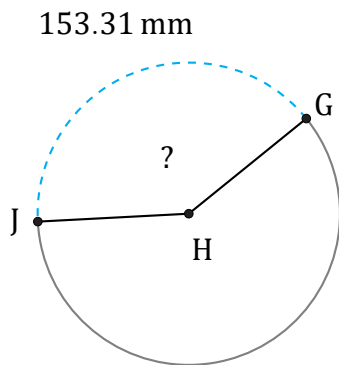
Radius = 2 mi

$$\angle ABC = \frac{3.94}{2 \times \pi \times 2} \times 360 = 112.9^\circ$$



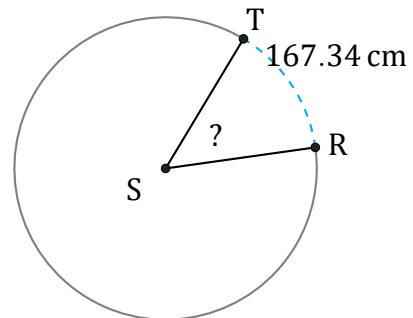
Radius = 193 AU

$$\angle DEF = \frac{384.01}{193 \times \pi \times 2} \times 360 = 114^\circ$$



Radius = 61 mm

$$\angle GHJ = \frac{153.31}{61 \times \pi \times 2} \times 360 = 144^\circ$$



Radius = 188 cm

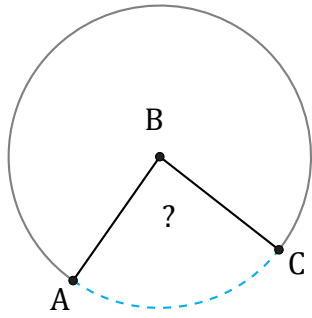
$$\angle RST = \frac{167.34}{188 \times \pi \times 2} \times 360 = 51^\circ$$

Arc Angles (I)

Name: _____

Date: _____

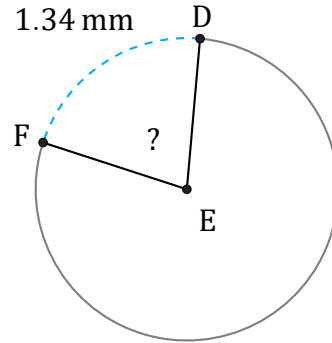
Calculate each arc angle measurement.



783.51 m

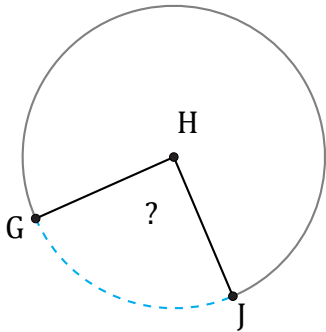
Radius = 516 m

$\angle ABC =$



Radius = 1 mm

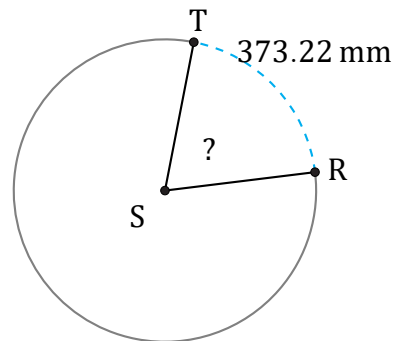
$\angle DEF =$



6.21 km

Radius = 4 km

$\angle GHJ =$



Radius = 297 mm

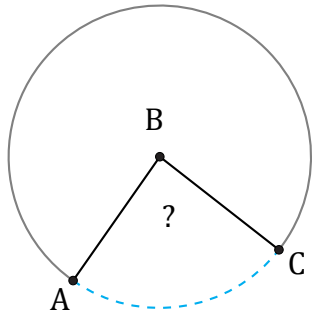
$\angle RST =$

Arc Angles (I) Answers

Name: _____

Date: _____

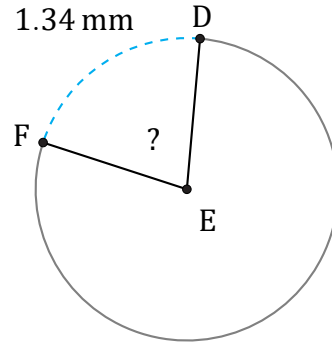
Calculate each arc angle measurement.



783.51 m

Radius = 516 m

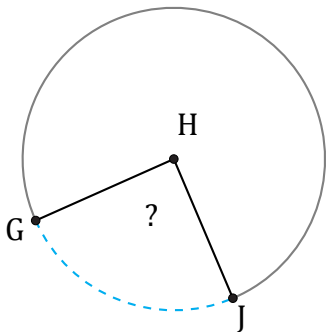
$$\angle ABC = \frac{783.51}{516 \times \pi \times 2} \times 360 = 87^\circ$$



1.34 mm

Radius = 1 mm

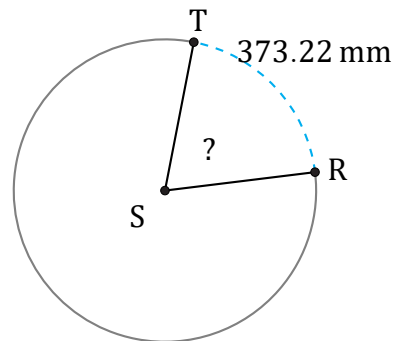
$$\angle DEF = \frac{1.34}{1 \times \pi \times 2} \times 360 = 76.8^\circ$$



6.21 km

Radius = 4 km

$$\angle GHJ = \frac{6.21}{4 \times \pi \times 2} \times 360 = 89^\circ$$



373.22 mm

Radius = 297 mm

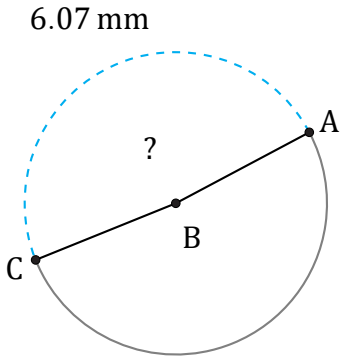
$$\angle RST = \frac{373.22}{297 \times \pi \times 2} \times 360 = 72^\circ$$

Arc Angles (J)

Name: _____

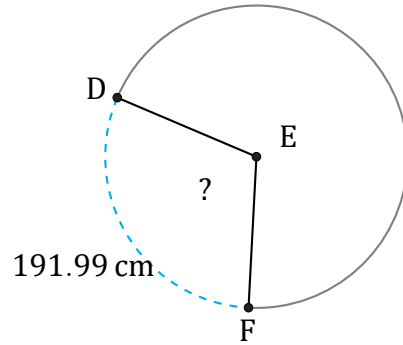
Date: _____

Calculate each arc angle measurement.



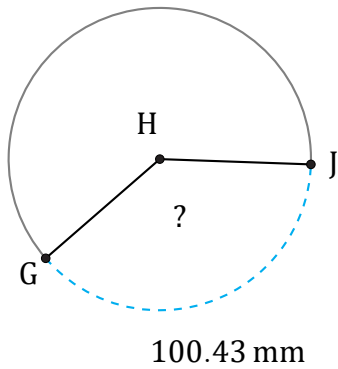
Radius = 2 mm

$\angle ABC =$



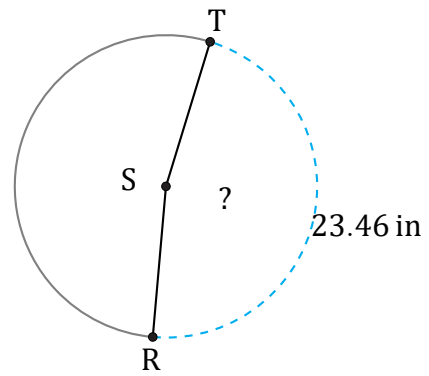
Radius = 100 cm

$\angle DEF =$



Radius = 42 mm

$\angle GHJ =$



Radius = 8 in

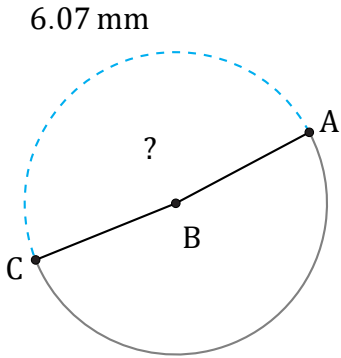
$\angle RST =$

Arc Angles (J) Answers

Name: _____

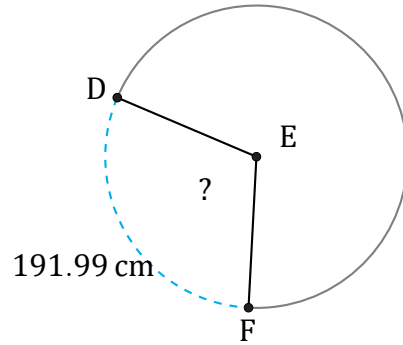
Date: _____

Calculate each arc angle measurement.



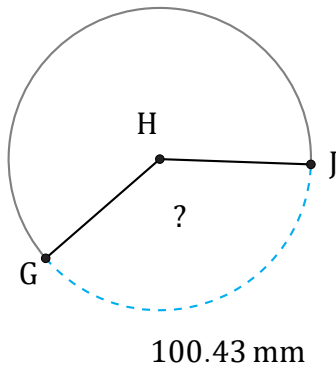
Radius = 2 mm

$$\angle ABC = \frac{6.07}{2 \times \pi \times 2} \times 360 = 173.9^\circ$$



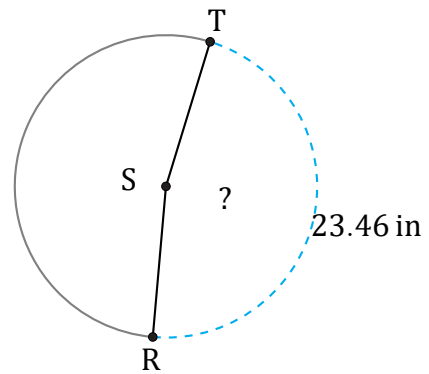
Radius = 100 cm

$$\angle DEF = \frac{191.99}{100 \times \pi \times 2} \times 360 = 110^\circ$$



Radius = 42 mm

$$\angle GHJ = \frac{100.43}{42 \times \pi \times 2} \times 360 = 137^\circ$$



Radius = 8 in

$$\angle RST = \frac{23.46}{8 \times \pi \times 2} \times 360 = 168^\circ$$