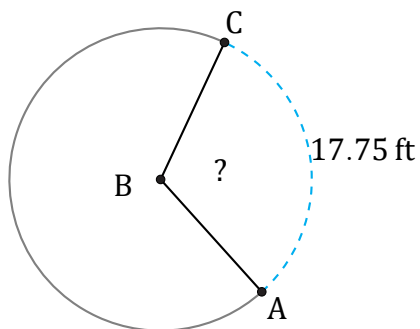


Arc Angles (A)

Name: _____

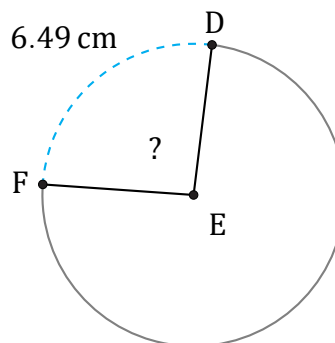
Date: _____

Calculate each arc angle measurement.



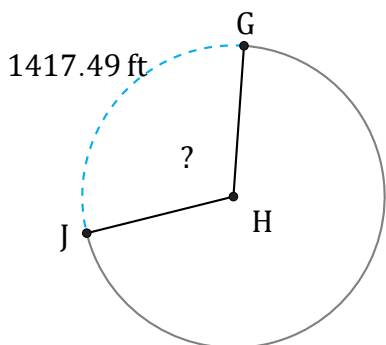
Radius = 9 ft

$\angle ABC =$



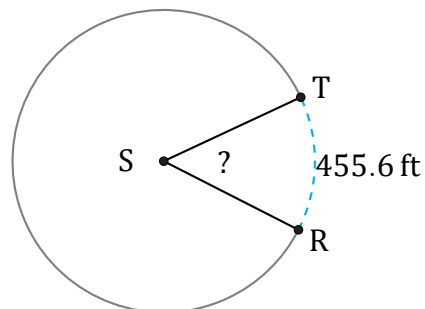
Diameter = 8 cm

$\angle DEF =$



Circumference = 4724.96 ft

$\angle GHJ =$



Diameter = 1004 ft

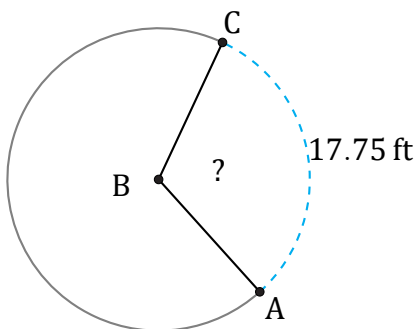
$\angle RST =$

Arc Angles (A) Answers

Name: _____

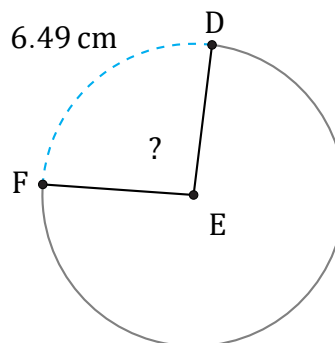
Date: _____

Calculate each arc angle measurement.



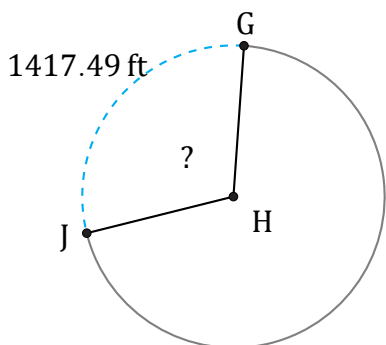
Radius = 9 ft

$$\angle ABC = \frac{17.75}{9 \times \pi \times 2} \times 360 = 113^\circ$$



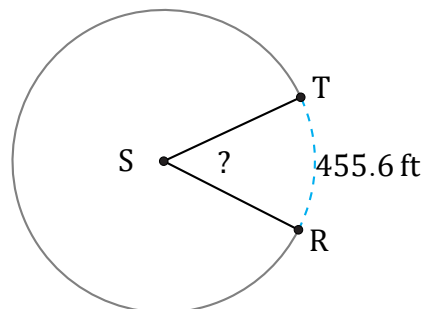
Diameter = 8 cm

$$\angle DEF = \frac{6.49}{8 \times \pi} \times 360 = 93^\circ$$



Circumference = 4724.96 ft

$$\angle GHJ = \frac{1417.49}{4724.96} \times 360 = 108^\circ$$



Diameter = 1004 ft

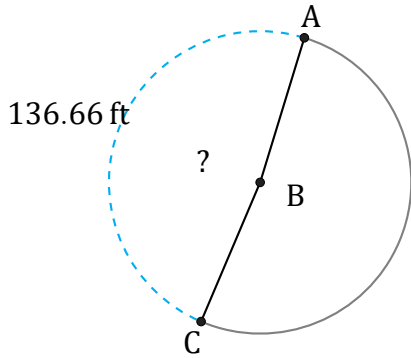
$$\angle RST = \frac{455.6}{1004 \times \pi} \times 360 = 52^\circ$$

Arc Angles (B)

Name: _____

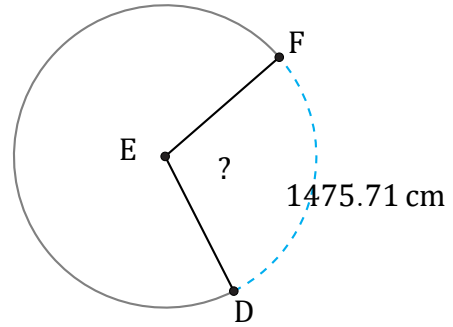
Date: _____

Calculate each arc angle measurement.



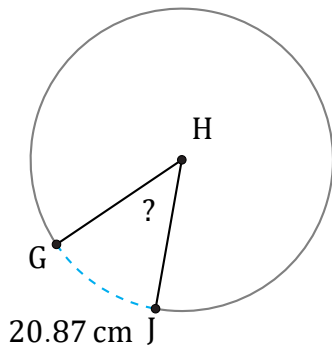
Circumference = 282.74 ft

$\angle ABC =$



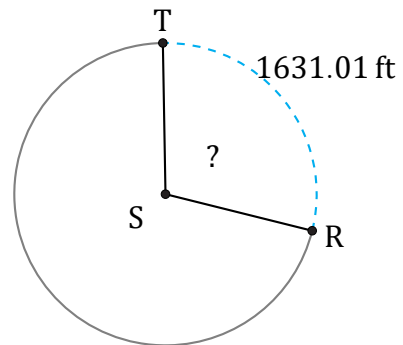
Circumference = 5108.23 cm

$\angle DEF =$



Radius = 26 cm

$\angle GHJ =$



Diameter = 1780 ft

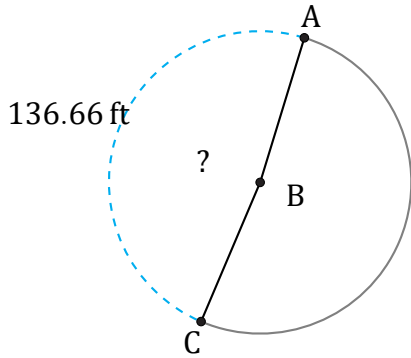
$\angle RST =$

Arc Angles (B) Answers

Name: _____

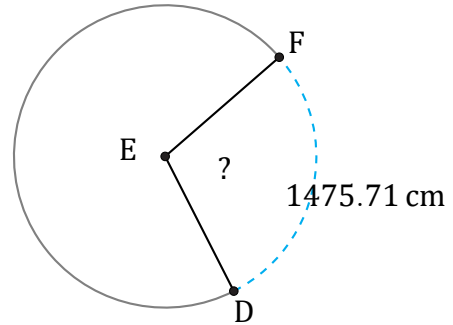
Date: _____

Calculate each arc angle measurement.



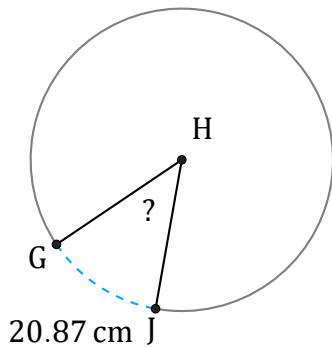
Circumference = 282.74 ft

$$\angle ABC = \frac{136.66}{282.74} \times 360 = 174^\circ$$



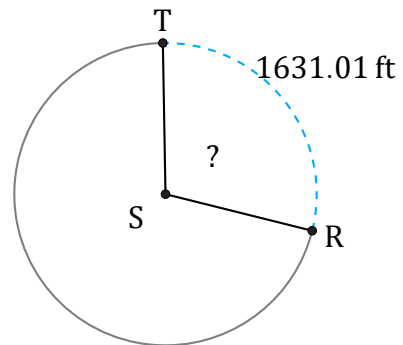
Circumference = 5108.23 cm

$$\angle DEF = \frac{1475.71}{5108.23} \times 360 = 104^\circ$$



Radius = 26 cm

$$\angle GHJ = \frac{20.87}{26 \times \pi \times 2} \times 360 = 46^\circ$$



Diameter = 1780 ft

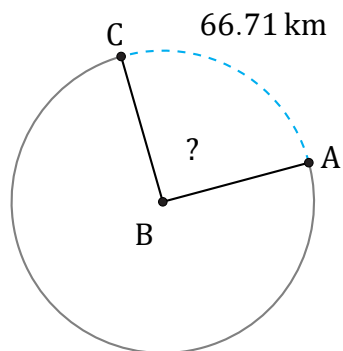
$$\angle RST = \frac{1631.01}{1780 \times \pi} \times 360 = 105^\circ$$

Arc Angles (C)

Name: _____

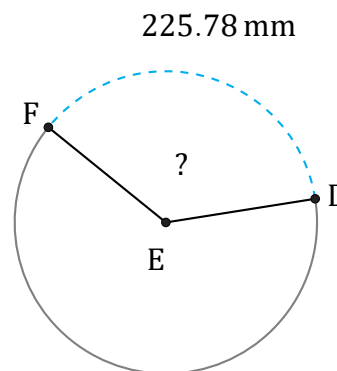
Date: _____

Calculate each arc angle measurement.



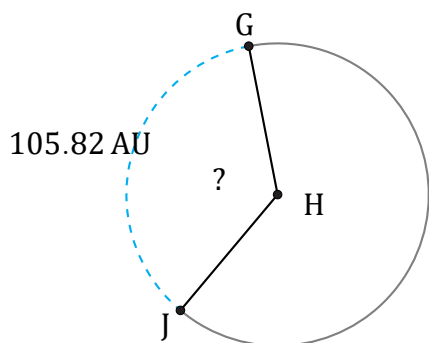
Radius = 42 km

$\angle ABC =$



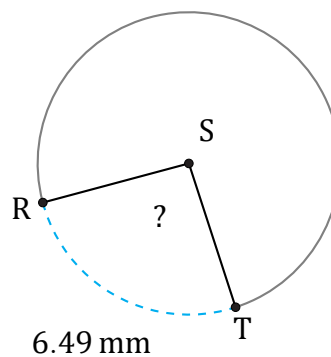
Diameter = 196 mm

$\angle DEF =$



Diameter = 94 AU

$\angle GHJ =$



Circumference = 25.13 mm

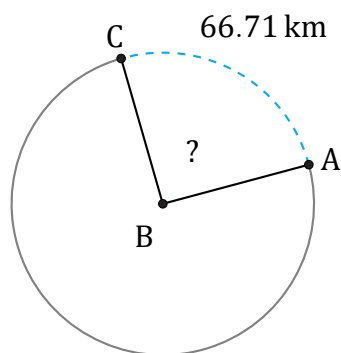
$\angle RST =$

Arc Angles (C) Answers

Name: _____

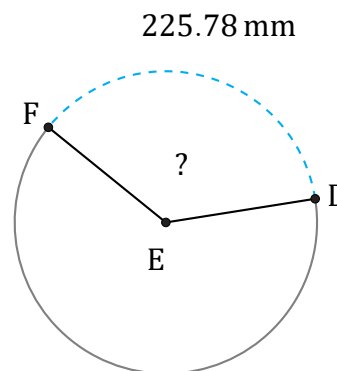
Date: _____

Calculate each arc angle measurement.



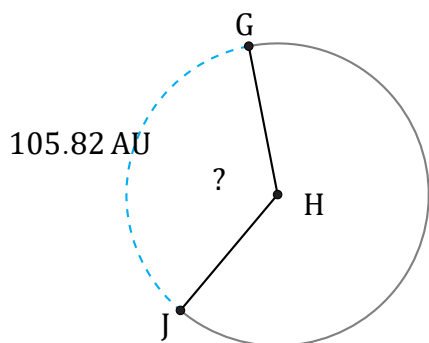
Radius = 42 km

$$\angle ABC = \frac{66.71}{42 \times \pi \times 2} \times 360 = 91^\circ$$



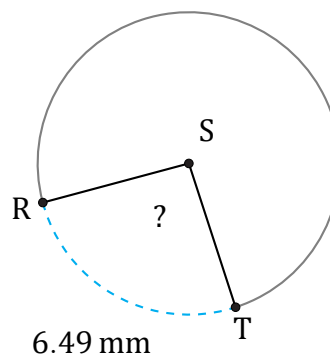
Diameter = 196 mm

$$\angle DEF = \frac{225.78}{196 \times \pi} \times 360 = 132^\circ$$



Diameter = 94 AU

$$\angle GHJ = \frac{105.82}{94 \times \pi} \times 360 = 129^\circ$$



Circumference = 25.13 mm

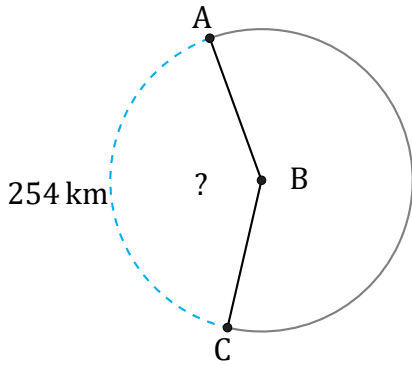
$$\angle RST = \frac{6.49}{25.13} \times 360 = 93^\circ$$

Arc Angles (D)

Name: _____

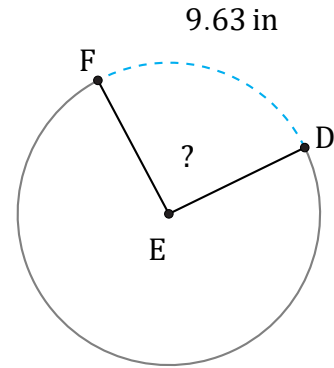
Date: _____

Calculate each arc angle measurement.



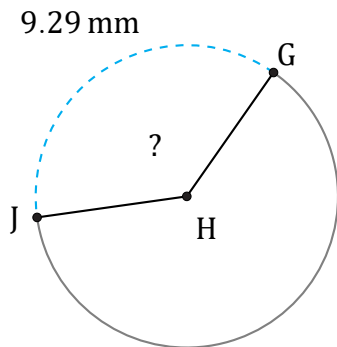
Diameter = 198 km

$\angle ABC =$



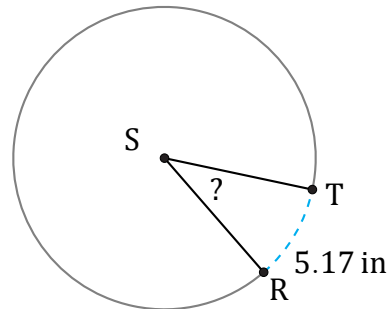
Radius = 6 in

$\angle DEF =$



Diameter = 8 mm

$\angle GHJ =$



Circumference = 50.27 in

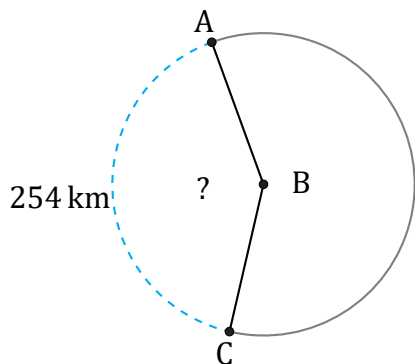
$\angle RST =$

Arc Angles (D) Answers

Name: _____

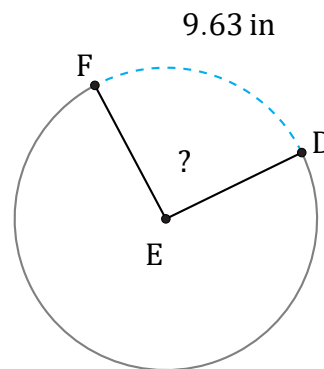
Date: _____

Calculate each arc angle measurement.



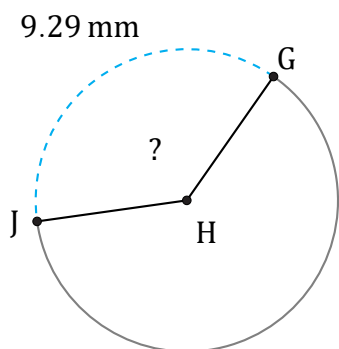
Diameter = 198 km

$$\angle ABC = \frac{254}{198 \times \pi} \times 360 = 147^\circ$$



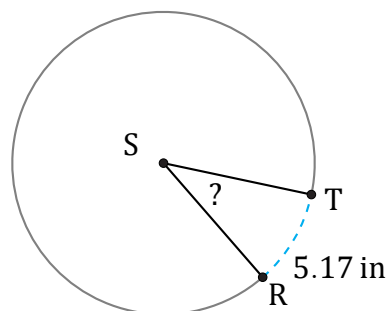
Radius = 6 in

$$\angle DEF = \frac{9.63}{6 \times \pi \times 2} \times 360 = 92^\circ$$



Diameter = 8 mm

$$\angle GHJ = \frac{9.29}{8 \times \pi} \times 360 = 133.1^\circ$$



Circumference = 50.27 in

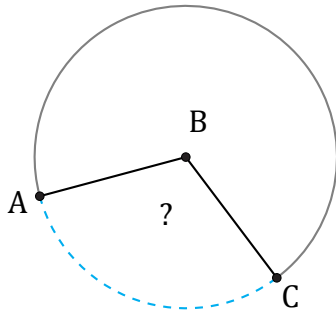
$$\angle RST = \frac{5.17}{50.27} \times 360 = 37^\circ$$

Arc Angles (E)

Name: _____

Date: _____

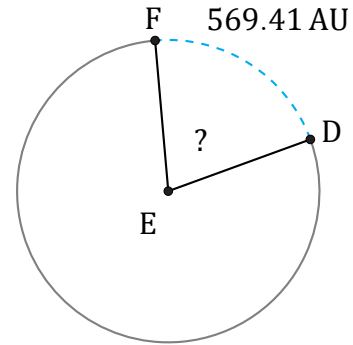
Calculate each arc angle measurement.



824.91 AU

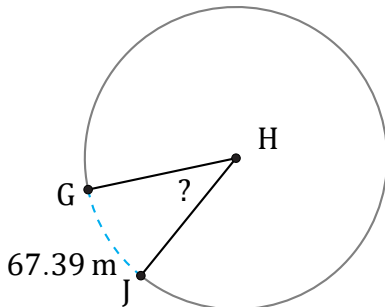
Radius = 422 AU

$\angle ABC =$



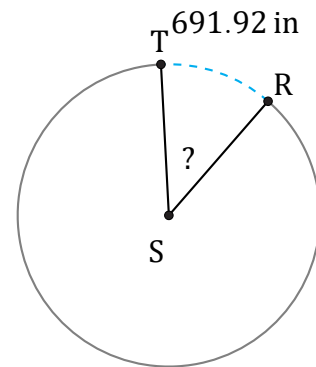
Diameter = 870 AU

$\angle DEF =$



Diameter = 198 m

$\angle GHJ =$



Circumference = 5661.15 in

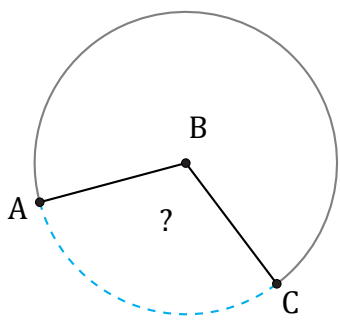
$\angle RST =$

Arc Angles (E) Answers

Name: _____

Date: _____

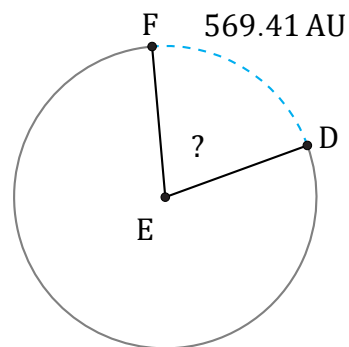
Calculate each arc angle measurement.



824.91 AU

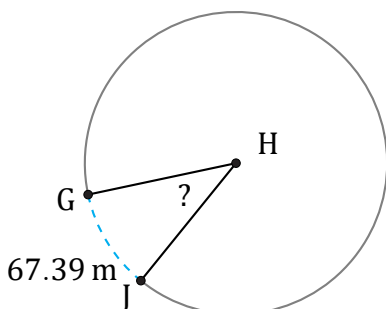
Radius = 422 AU

$$\angle ABC = \frac{824.91}{422 \times \pi \times 2} \times 360 = 112^\circ$$



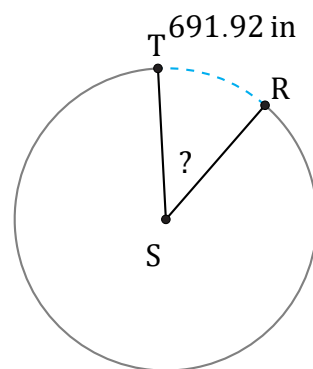
Diameter = 870 AU

$$\angle DEF = \frac{569.41}{870 \times \pi} \times 360 = 75^\circ$$



Diameter = 198 m

$$\angle GHJ = \frac{67.39}{198 \times \pi} \times 360 = 39^\circ$$



Circumference = 5661.15 in

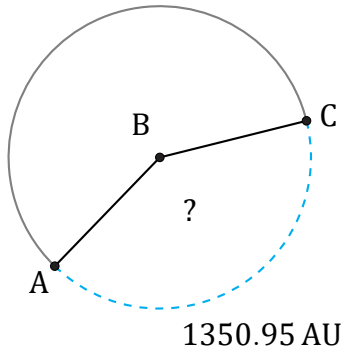
$$\angle RST = \frac{691.92}{5661.15} \times 360 = 44^\circ$$

Arc Angles (F)

Name: _____

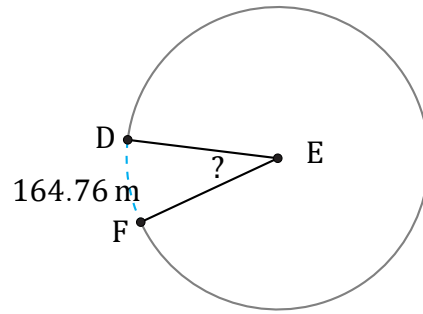
Date: _____

Calculate each arc angle measurement.



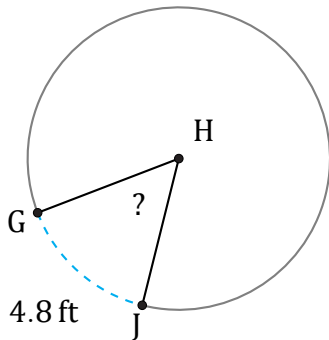
Circumference = 3286.11 AU

$\angle ABC =$



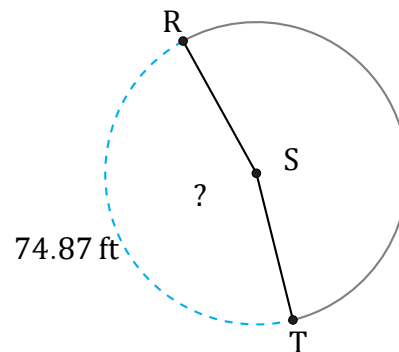
Circumference = 1853.54 m

$\angle DEF =$



Radius = 5 ft

$\angle GHJ =$



Diameter = 52 ft

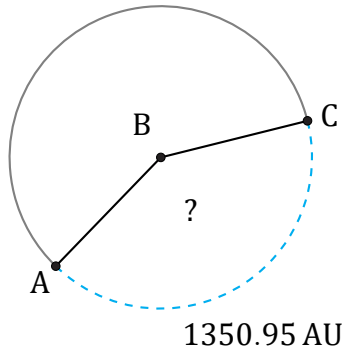
$\angle RST =$

Arc Angles (F) Answers

Name: _____

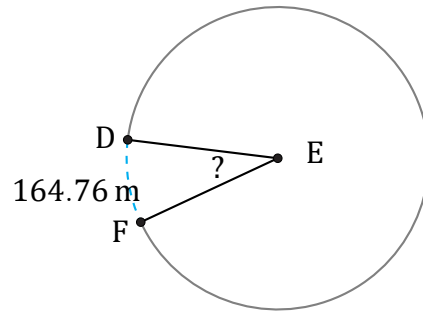
Date: _____

Calculate each arc angle measurement.



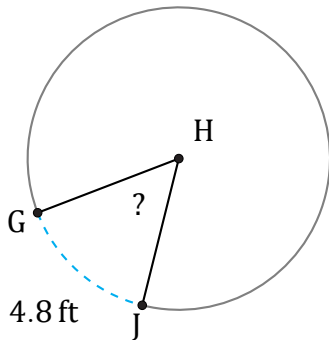
Circumference = 3286.11 AU

$$\angle ABC = \frac{1350.95}{3286.11} \times 360 = 148^\circ$$



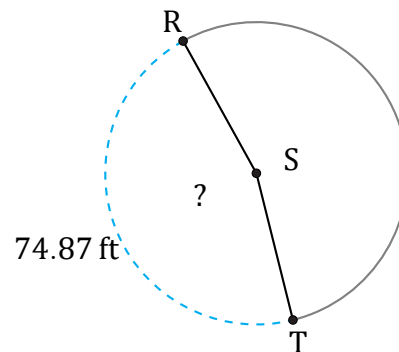
Circumference = 1853.54 m

$$\angle DEF = \frac{164.76}{1853.54} \times 360 = 32^\circ$$



Radius = 5 ft

$$\angle GHJ = \frac{4.8}{5 \times \pi \times 2} \times 360 = 55^\circ$$



Diameter = 52 ft

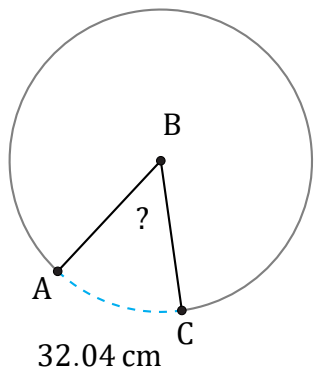
$$\angle RST = \frac{74.87}{52 \times \pi} \times 360 = 165^\circ$$

Arc Angles (G)

Name: _____

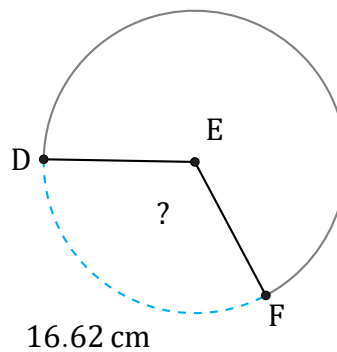
Date: _____

Calculate each arc angle measurement.



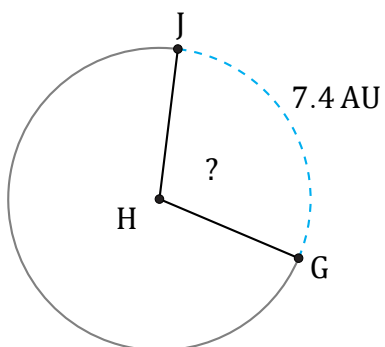
Circumference = 226.19 cm

$\angle ABC =$



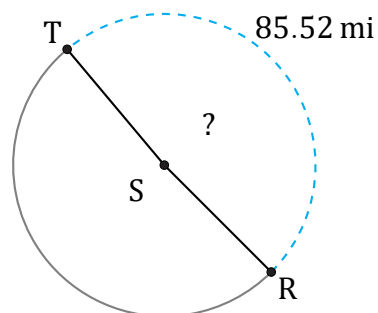
Radius = 8 cm

$\angle DEF =$



Radius = 4 AU

$\angle GHJ =$



Diameter = 56 mi

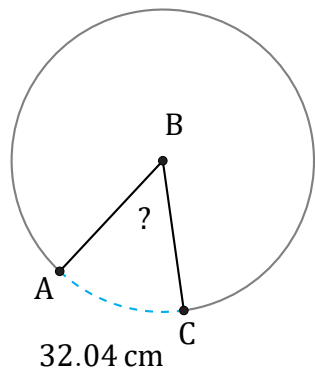
$\angle RST =$

Arc Angles (G) Answers

Name: _____

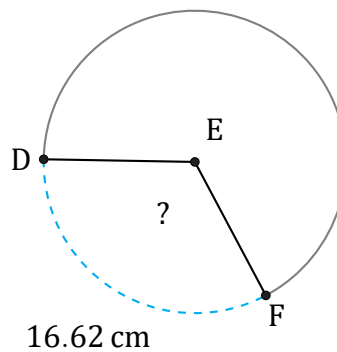
Date: _____

Calculate each arc angle measurement.



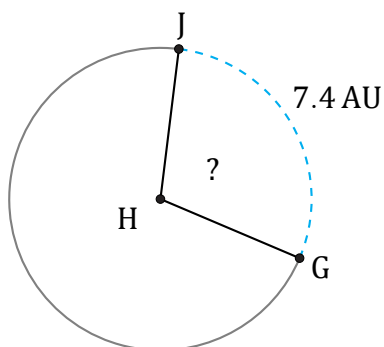
Circumference = 226.19 cm

$$\angle ABC = \frac{32.04}{226.19} \times 360 = 51^\circ$$



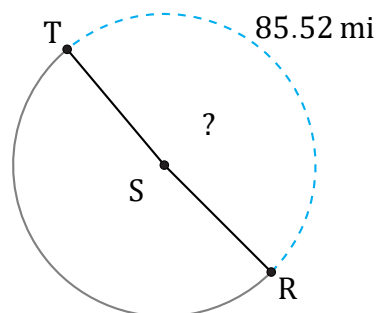
Radius = 8 cm

$$\angle DEF = \frac{16.62}{8 \times \pi \times 2} \times 360 = 119^\circ$$



Radius = 4 AU

$$\angle GHJ = \frac{7.4}{4 \times \pi \times 2} \times 360 = 106^\circ$$



Diameter = 56 mi

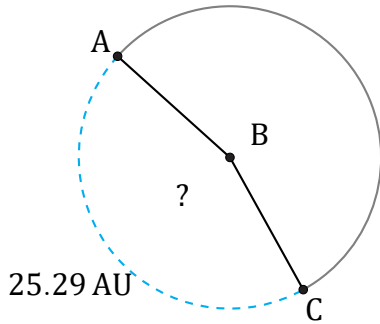
$$\angle RST = \frac{85.52}{56 \times \pi} \times 360 = 175^\circ$$

Arc Angles (H)

Name: _____

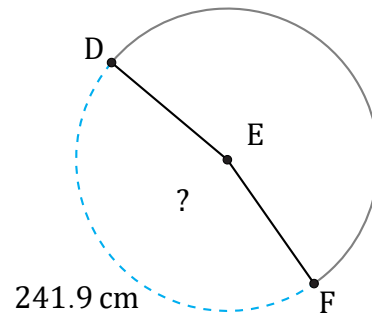
Date: _____

Calculate each arc angle measurement.



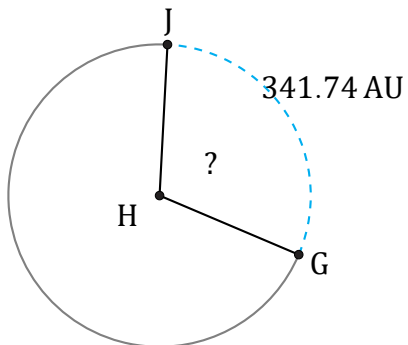
Radius = 9 AU

$\angle ABC =$



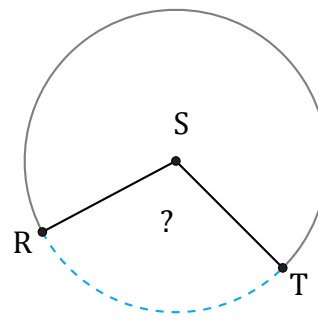
Circumference = 527.79 cm

$\angle DEF =$



Diameter = 356 AU

$\angle GHJ =$



5.6 km

Radius = 3 km

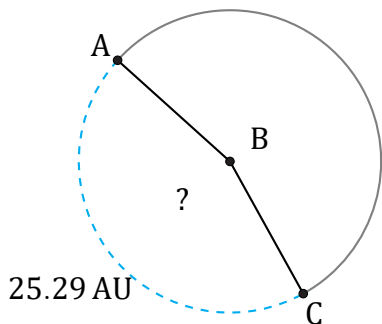
$\angle RST =$

Arc Angles (H) Answers

Name: _____

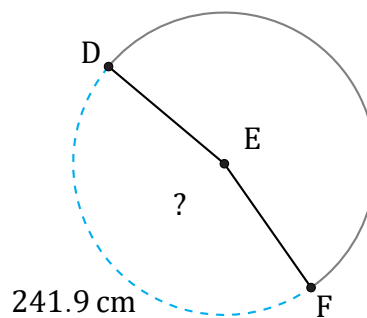
Date: _____

Calculate each arc angle measurement.



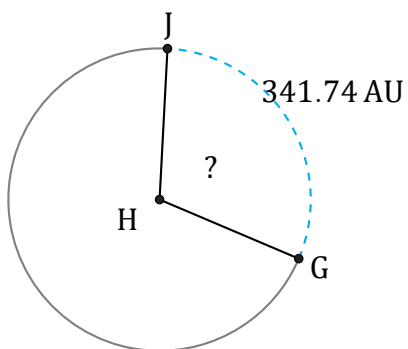
Radius = 9 AU

$$\angle ABC = \frac{25.29}{9 \times \pi \times 2} \times 360 = 161^\circ$$



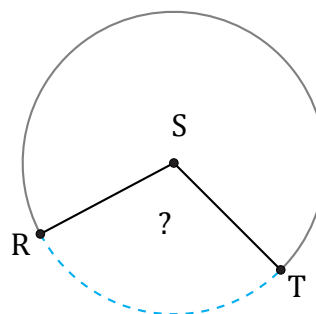
Circumference = 527.79 cm

$$\angle DEF = \frac{241.9}{527.79} \times 360 = 165^\circ$$



Diameter = 356 AU

$$\angle GHJ = \frac{341.74}{356 \times \pi} \times 360 = 110^\circ$$



5.6 km

Radius = 3 km

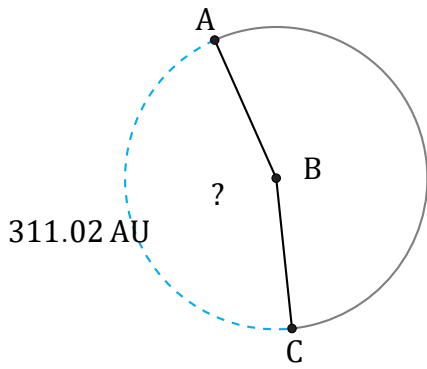
$$\angle RST = \frac{5.6}{3 \times \pi \times 2} \times 360 = 107^\circ$$

Arc Angles (I)

Name: _____

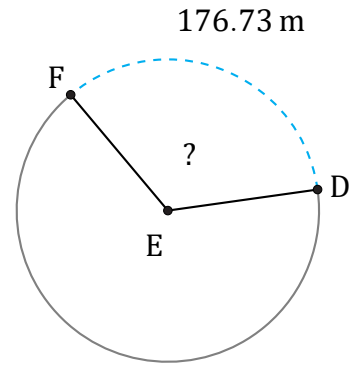
Date: _____

Calculate each arc angle measurement.



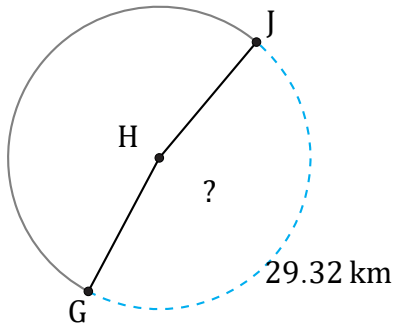
Radius = 110 AU

$\angle ABC =$



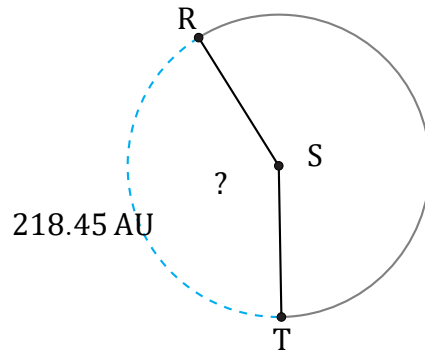
Circumference = 521.5 m

$\angle DEF =$



Diameter = 20 km

$\angle GHJ =$



Diameter = 168 AU

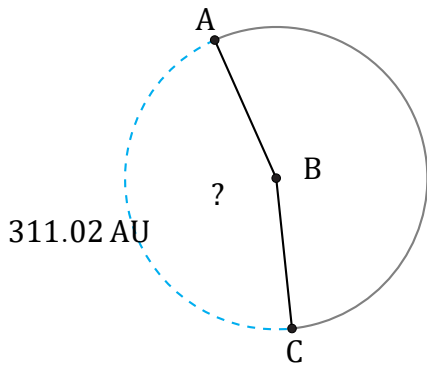
$\angle RST =$

Arc Angles (I) Answers

Name: _____

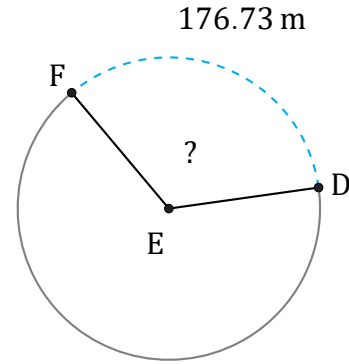
Date: _____

Calculate each arc angle measurement.



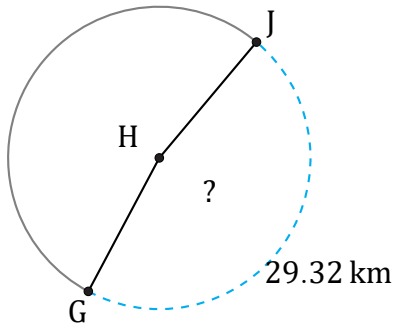
Radius = 110 AU

$$\angle ABC = \frac{311.02}{110 \times \pi \times 2} \times 360 = 162^\circ$$



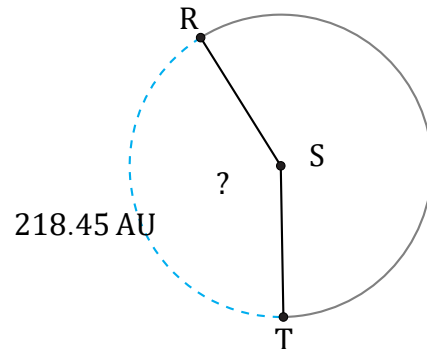
Circumference = 521.5 m

$$\angle DEF = \frac{176.73}{521.5} \times 360 = 122^\circ$$



Diameter = 20 km

$$\angle GHJ = \frac{29.32}{20 \times \pi} \times 360 = 168^\circ$$



Diameter = 168 AU

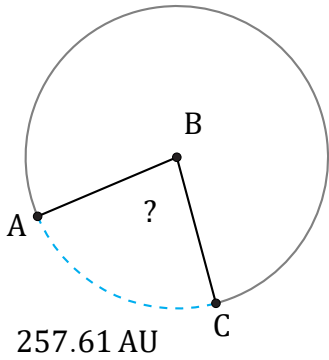
$$\angle RST = \frac{218.45}{168 \times \pi} \times 360 = 149^\circ$$

Arc Angles (J)

Name: _____

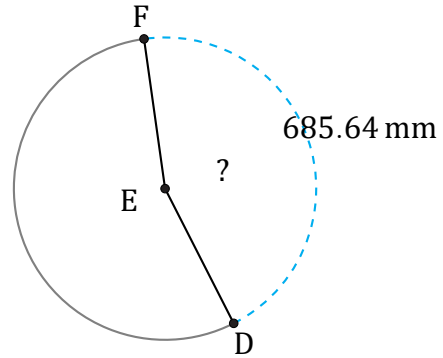
Date: _____

Calculate each arc angle measurement.



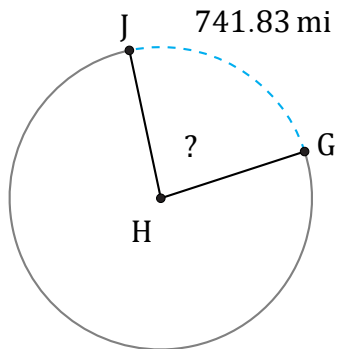
Radius = 180 AU

$\angle ABC =$



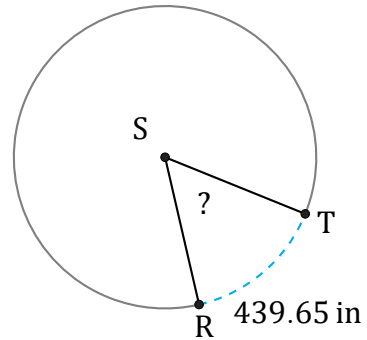
Diameter = 488 mm

$\angle DEF =$



Circumference = 3179.29 mi

$\angle GHJ =$



Circumference = 2877.7 in

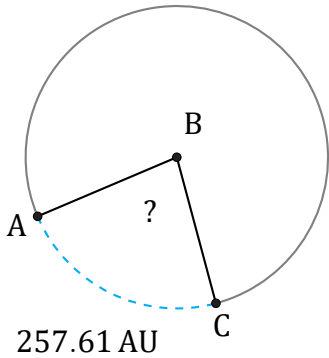
$\angle RST =$

Arc Angles (J) Answers

Name: _____

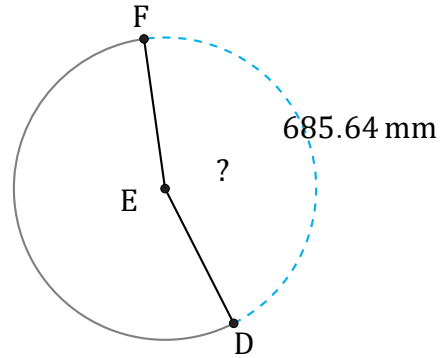
Date: _____

Calculate each arc angle measurement.



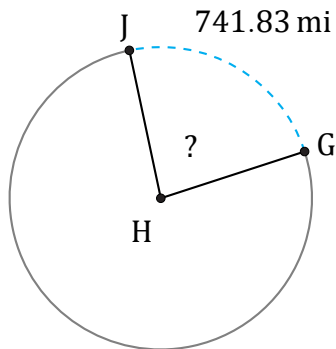
Radius = 180 AU

$$\angle ABC = \frac{257.61}{180 \times \pi \times 2} \times 360 = 82^\circ$$



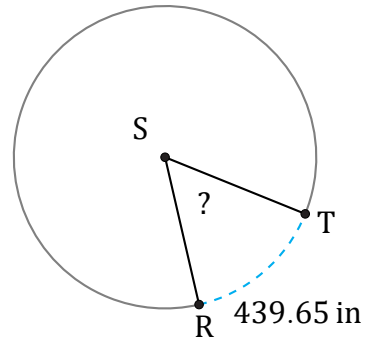
Diameter = 488 mm

$$\angle DEF = \frac{685.64}{488 \times \pi} \times 360 = 161^\circ$$



Circumference = 3179.29 mi

$$\angle GHJ = \frac{741.83}{3179.29} \times 360 = 84^\circ$$



Circumference = 2877.7 in

$$\angle RST = \frac{439.65}{2877.7} \times 360 = 55^\circ$$