

# Q3HW3

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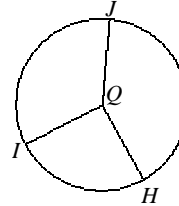
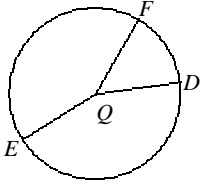
Date \_\_\_\_\_ Period \_\_\_\_\_

Name the central angle of the given arc.

Name the arc made by the given angle.

1)  $\widehat{DE}$

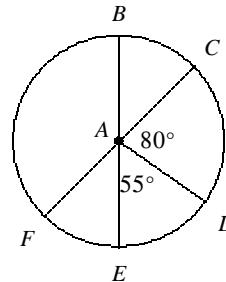
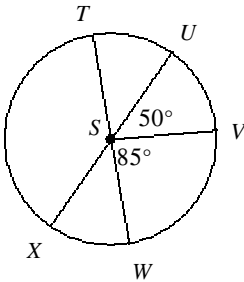
2)  $\angle HQI$



Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

3)  $m\angle VSX$

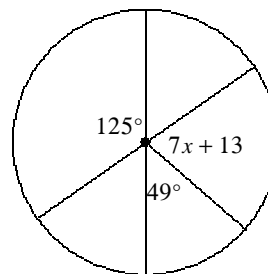
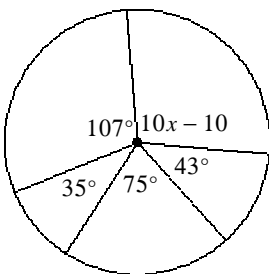
4)  $m\angle BAD$



Solve for  $x$ . Assume that lines which appear to be diameters are actual diameters.

5)

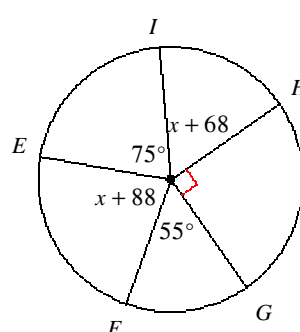
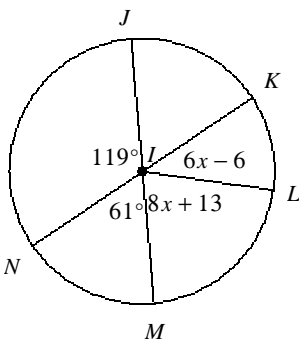
6)



Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

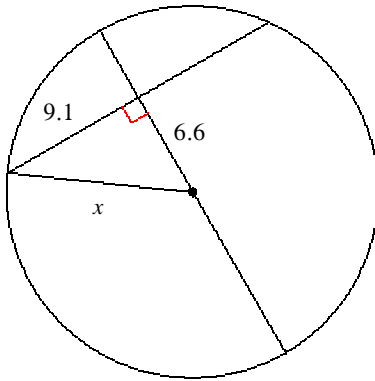
7)  $m\angle KIM$

8)  $m\widehat{IH}$

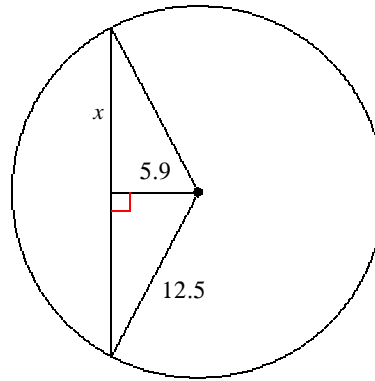


**Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.**

9)

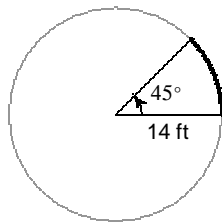


10)

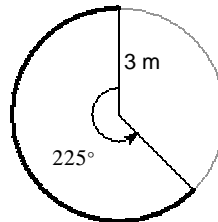


**Find the length of each arc.**

11)



12)



13)  $r = 15 \text{ m}, q = 225^\circ$

14)  $r = 10 \text{ m}, q = 285^\circ$

15)  $r = 11 \text{ cm}, q = 90^\circ$

16)  $r = 13 \text{ in}, q = 45^\circ$

**Find the length of each arc. Round your answers to the nearest tenth.**

17)  $r = 7 \text{ in}, q = 210^\circ$

18)  $r = 19 \text{ yd}, q = 120^\circ$

**Find the circumference of each circle.**

19) radius = 12 cm

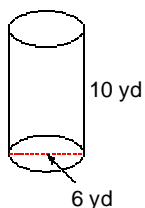
20) radius = 5 in

21) radius = 8 cm

22) radius = 11 km

**Find the surface area of each figure. Round your answers to the nearest tenth, if necessary.**

23)



24)

