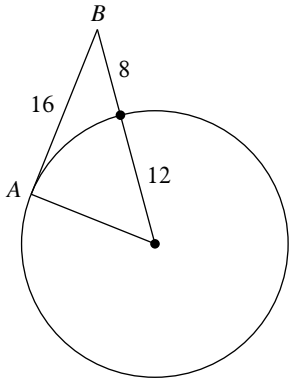
Kuta Software - Infinite Geometry Name_____

Tangents to Circles

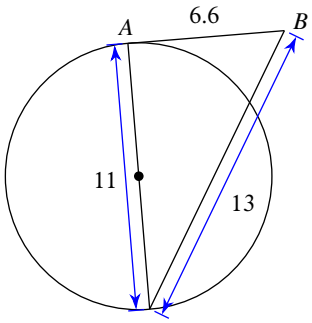
Date_____ Period____

Determine if line AB is tangent to the circle.

1)



2)



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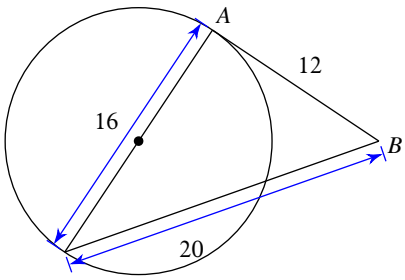
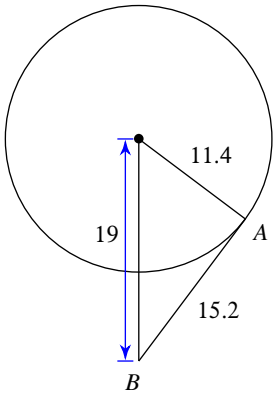
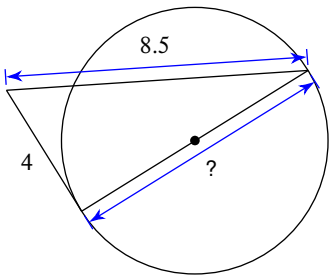


4)

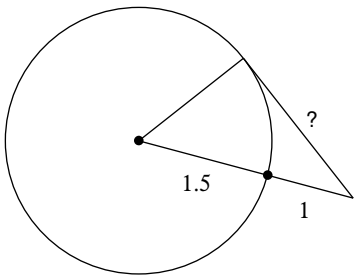


Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

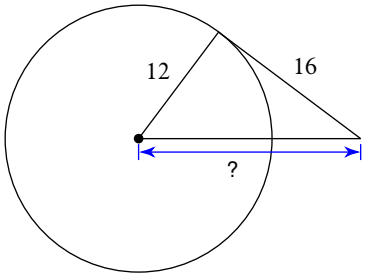
5)



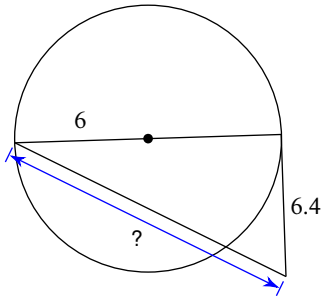
6)



7)

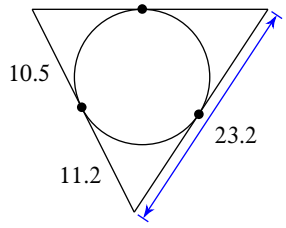


8)

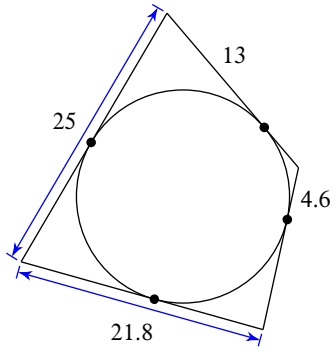


Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

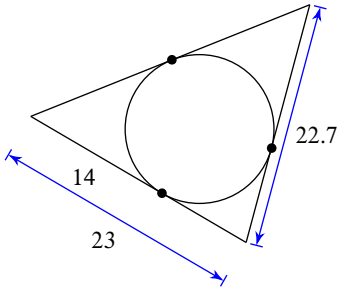
9)



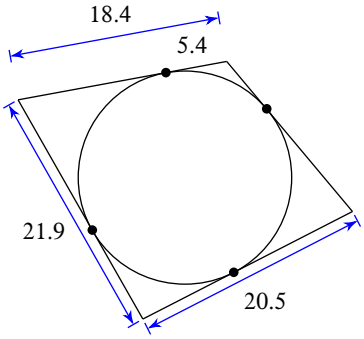
10)



11)

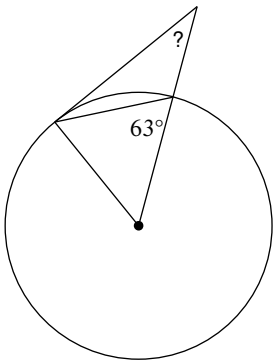


12)

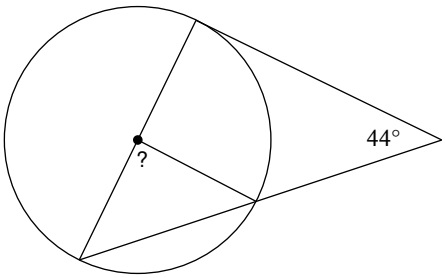


Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.

13)



14)



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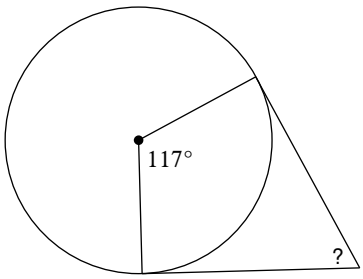

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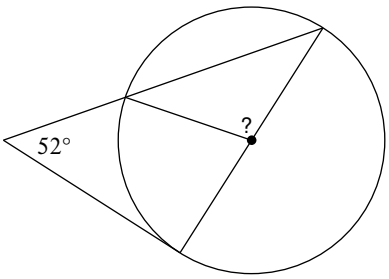


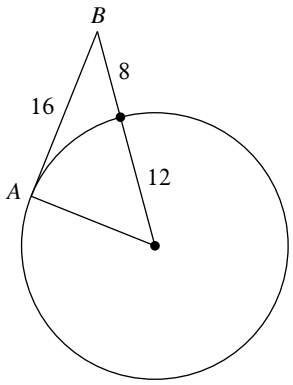
Kuta Software - Infinite Geometry Name_____

Tangents to Circles

Date_____ Period____

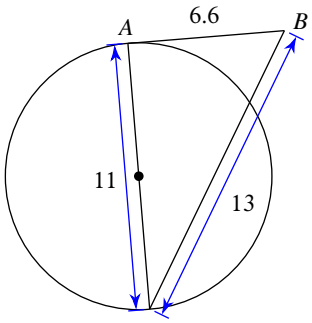
Determine if line AB is tangent to the circle.

1)



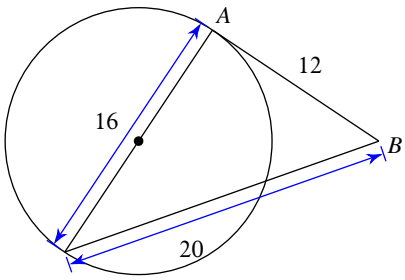
Tangent

2)



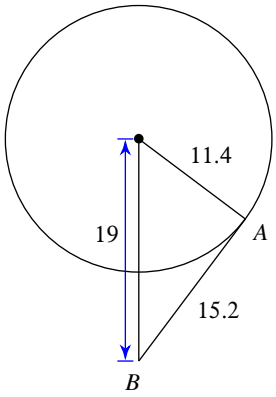
Not tangent

3)



Tangent

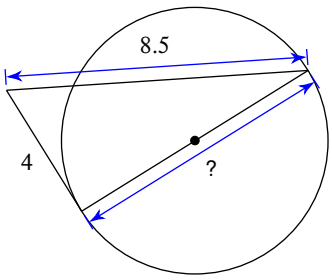
4)



Tangent

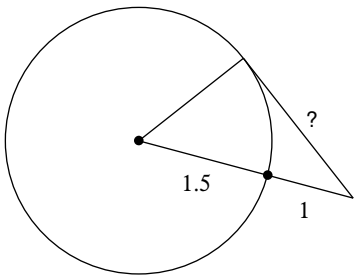
Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

5)



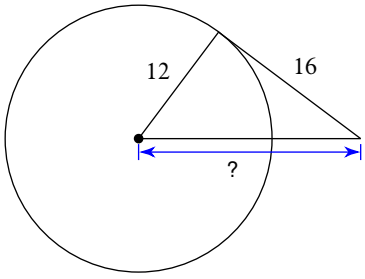
7.5

6)



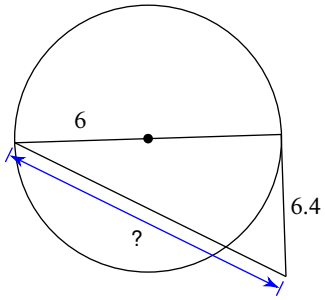
2

7)



20

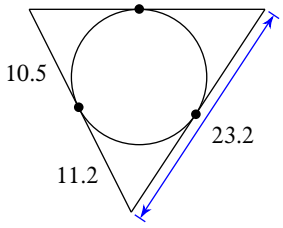
8)



13.6

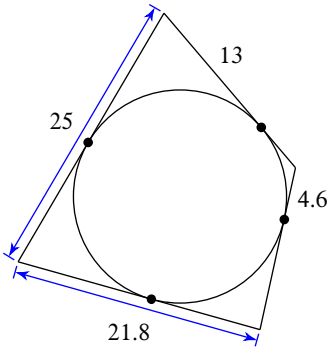
Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

9)



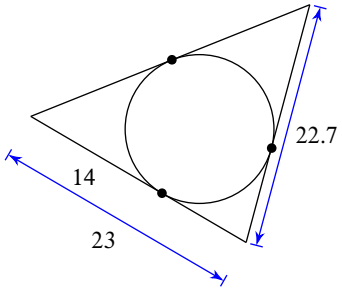
67.4

10)



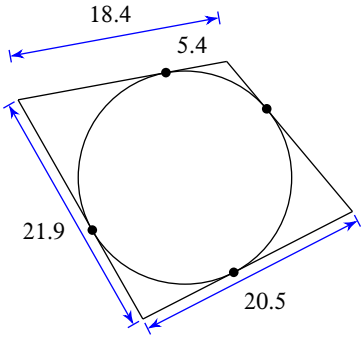
78.8

11)



73.4

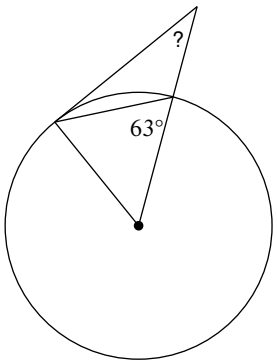
12)



77.8

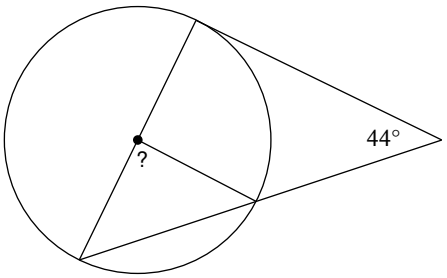
Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.

13)



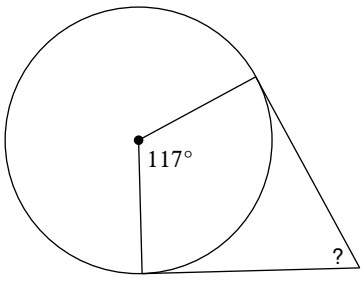
36°

14)



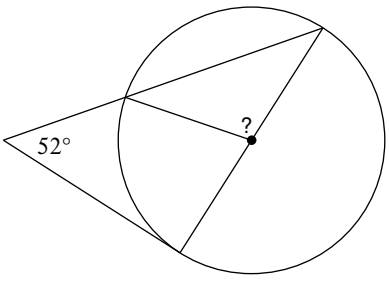
88°

15)



63°

16)



104°

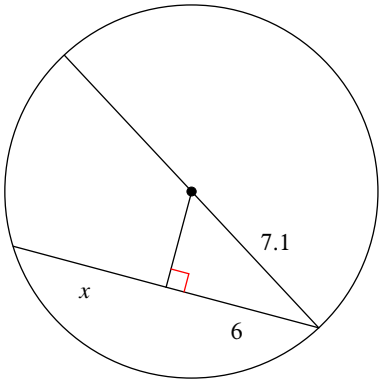
Kuta Software - Infinite Geometry Name_____

Arcs and Chords

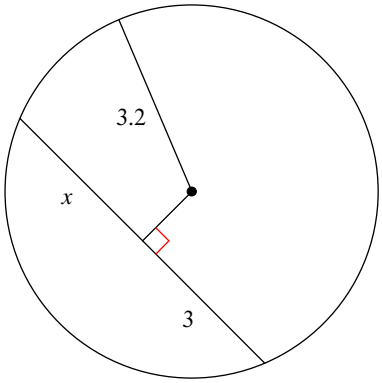
Date_____ Period____

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

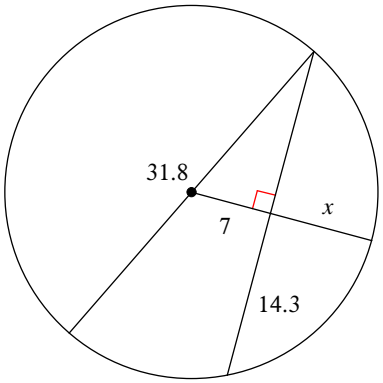
1)



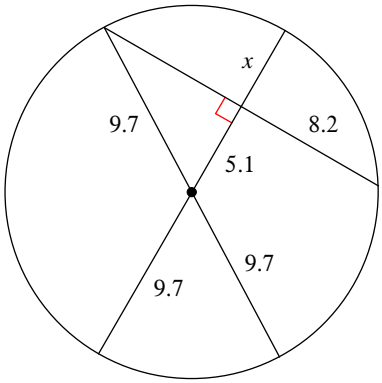
2)



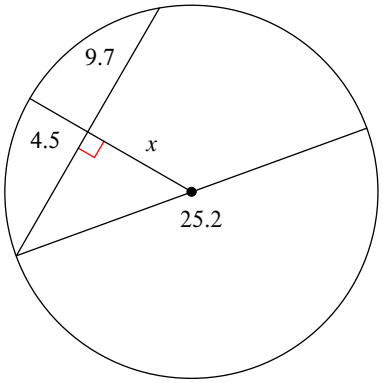
3)



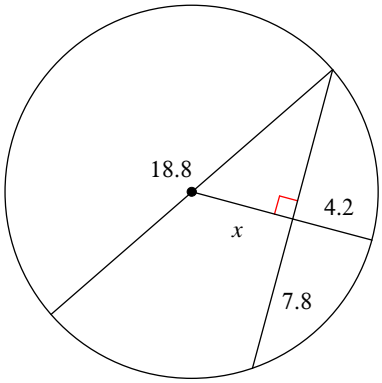
4)



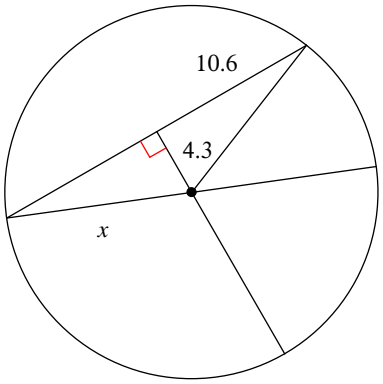
5)



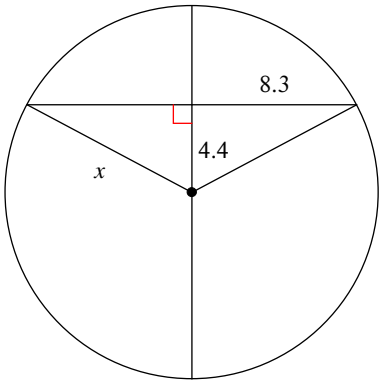
6)



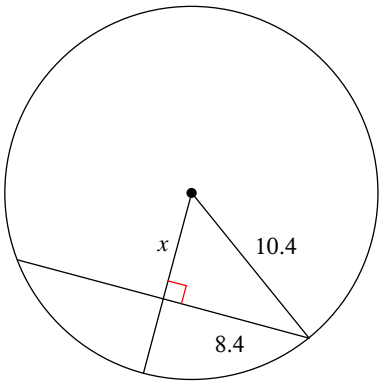
7)



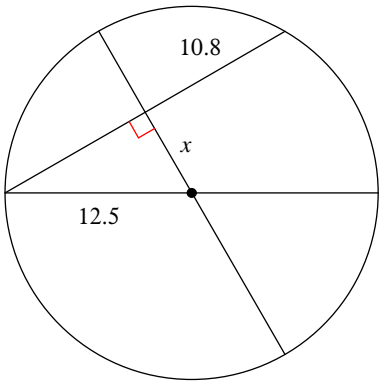
8)



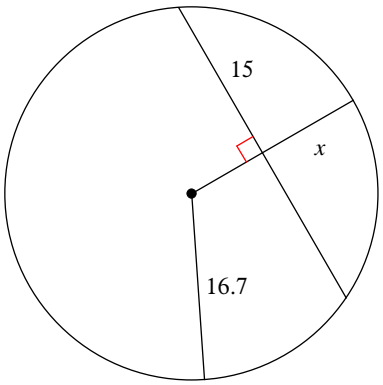
9)



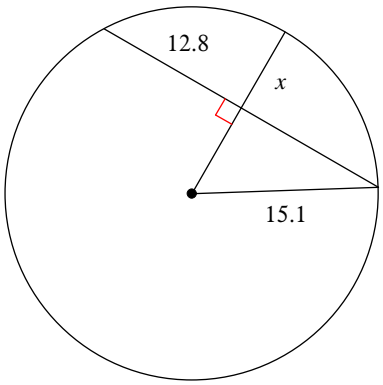
10)



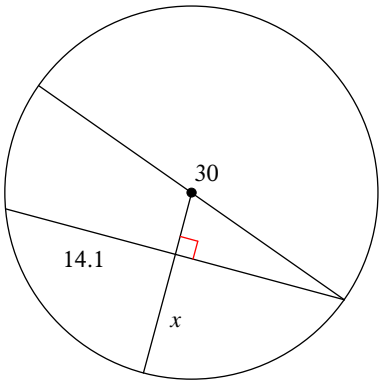
11)



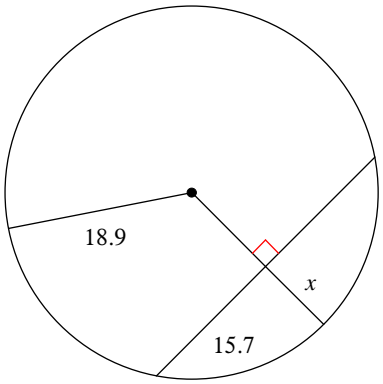
12)



13)



14)



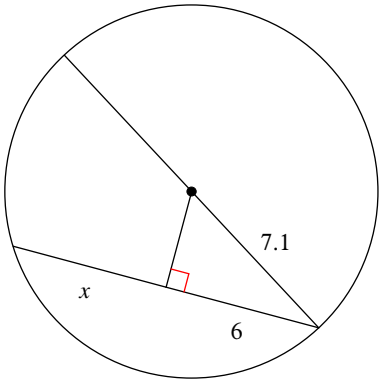
Kuta Software - Infinite Geometry Name_____

Arcs and Chords

Date_____ Period____

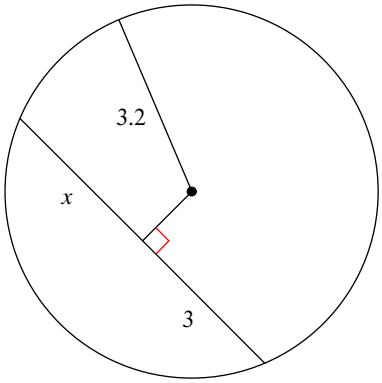
Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

1)



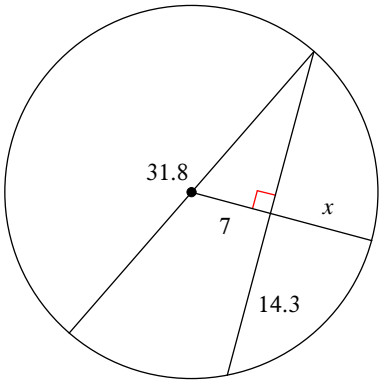
6

2)



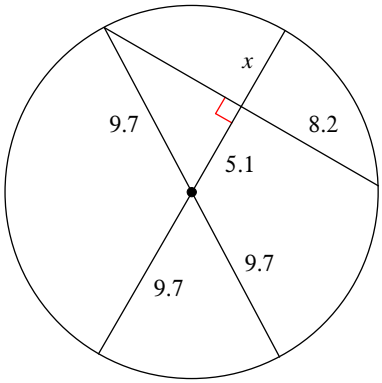
3

3)



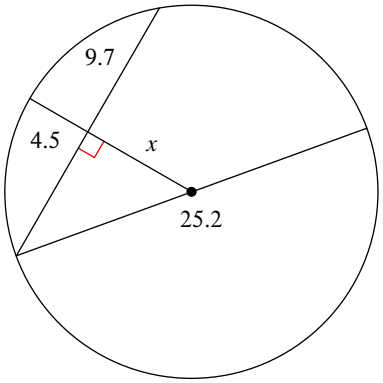
8.9

4)



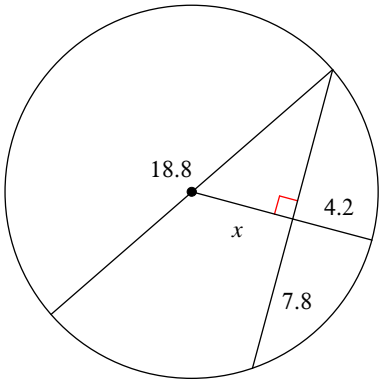
4.6

5)



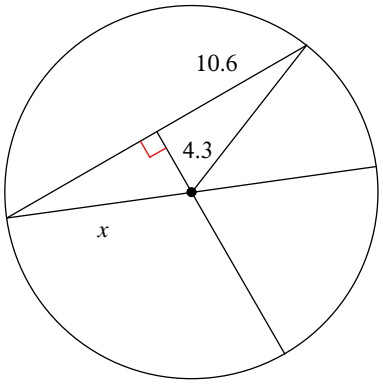
8.1

6)



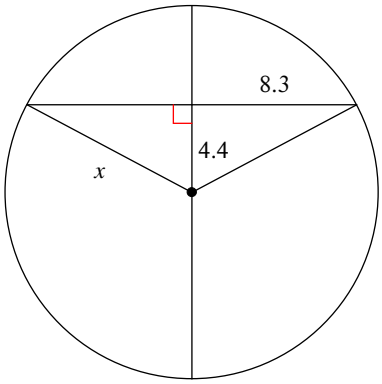
5.2

7)



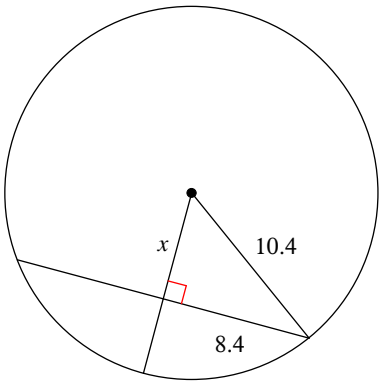
11.4

8)



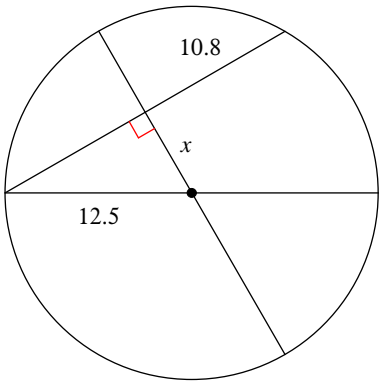
9.4

9)



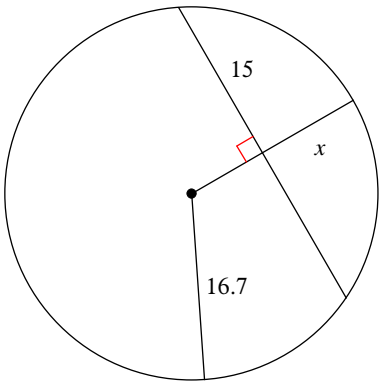
6.1

10)



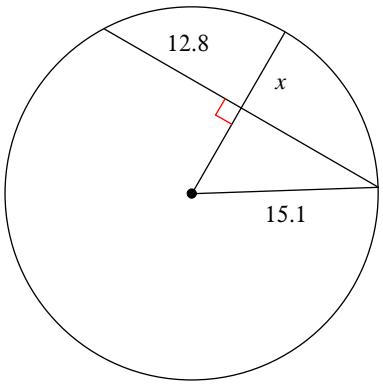
6.3

11)



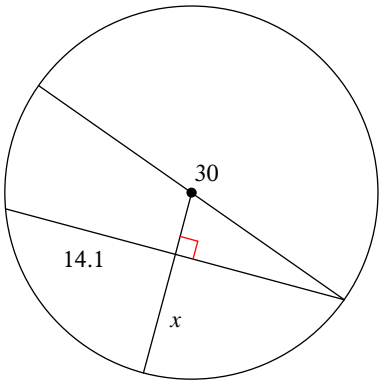
9.4

12)



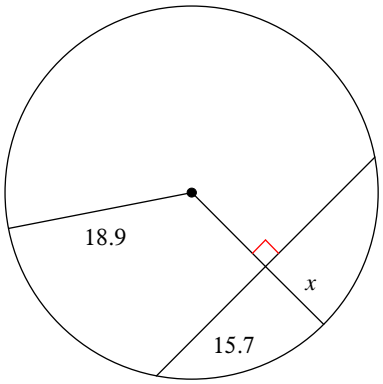
7.1

13)



9.9

14)



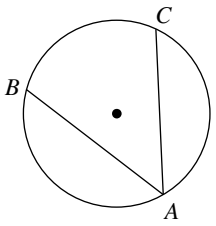
8.4

Inscribed Angles

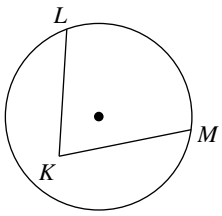
Date_____ Period____

State if each angle is an inscribed angle. If it is, name the angle and the intercepted arc.

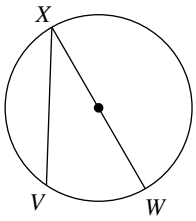
1)



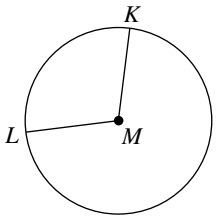
2)



3)

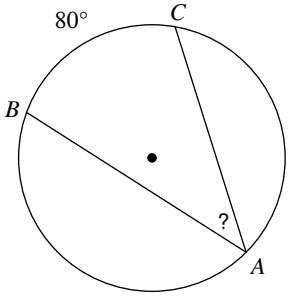


4)

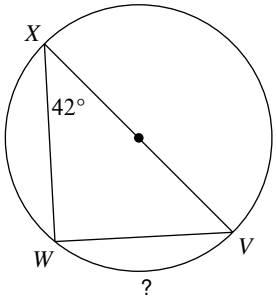


Find the measure of the arc or angle indicated.

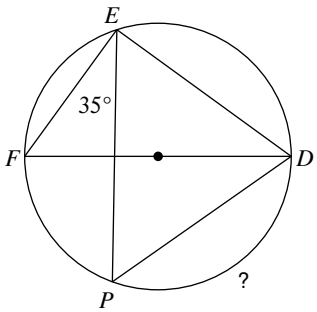
5)



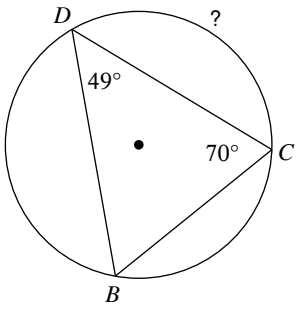
6)



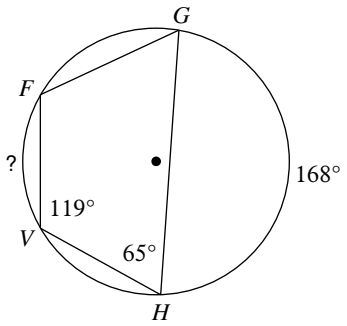
7)



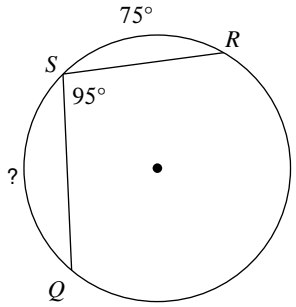
8)



9)

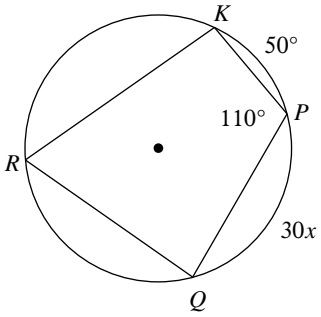


10)

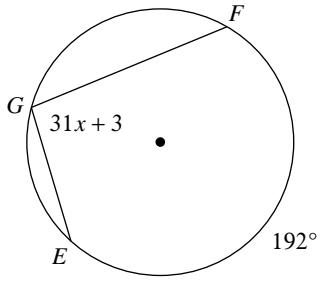


Solve for x.

11)

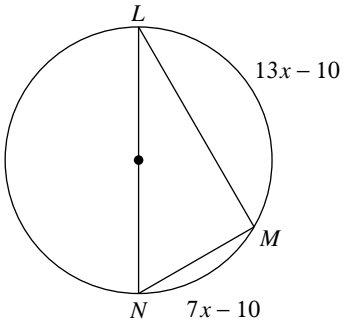


12)

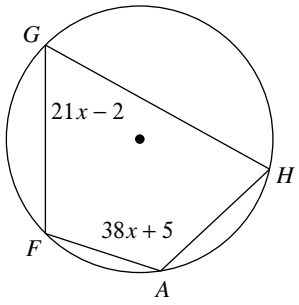


Find the measure of the arc or angle indicated.

13) Find $m\angle NLM$

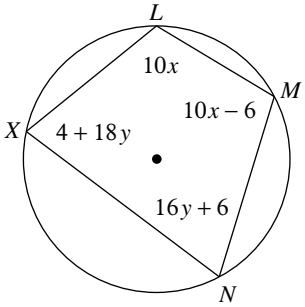


14) Find $m\widehat{FGH}$

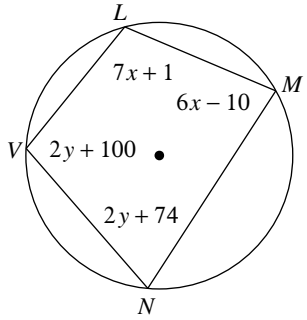


Solve for x and y.

15)



16)



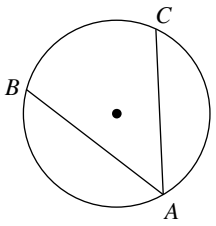
Kuta Software - Infinite Geometry Name_____

Inscribed Angles

Date_____ Period____

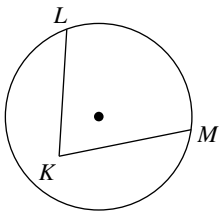
State if each angle is an inscribed angle. If it is, name the angle and the intercepted arc.

1)



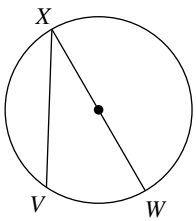
Yes; $m\angle BAC$, $\overset{\frown}{BC}$

2)



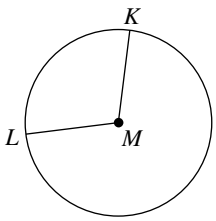
No

3)



Yes; $m\angle WXV$, $\overset{\frown}{WV}$

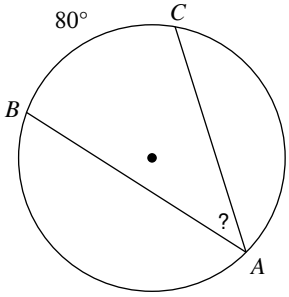
4)



No

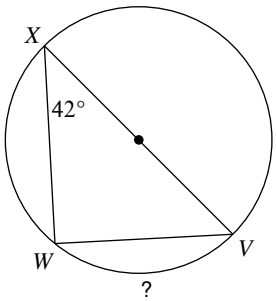
Find the measure of the arc or angle indicated.

5)



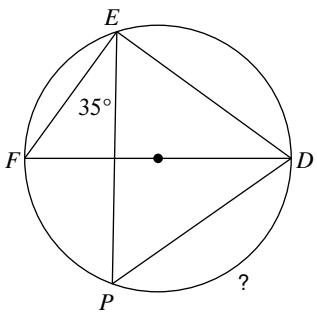
40°

6)



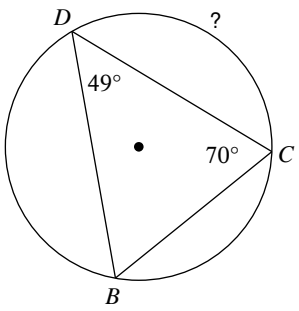
84°

7)



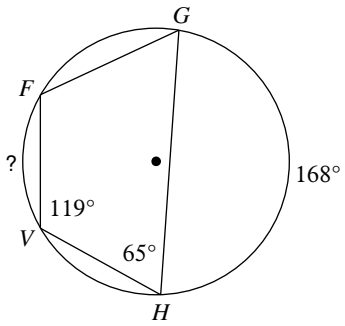
110°

8)

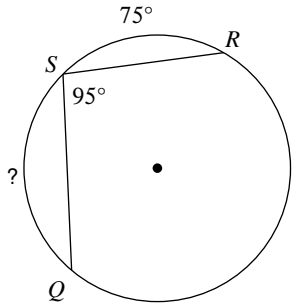


122°

9) 60°



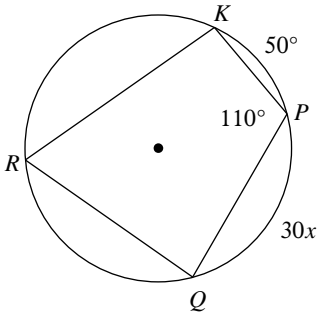
10)



95°

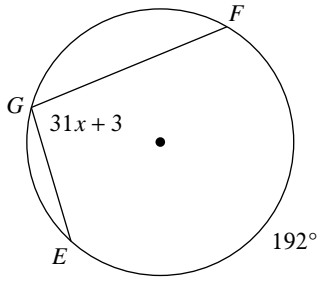
Solve for *x*.

11)



3

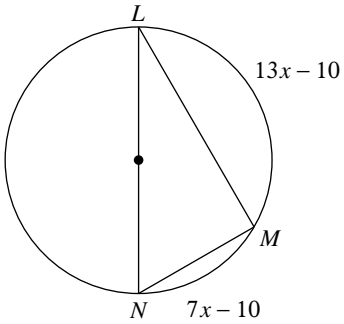
12)



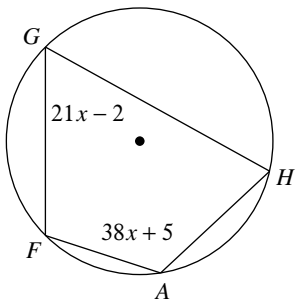
3

Find the measure of the arc or angle indicated.

13) Find $m\angle NLM$ 30°



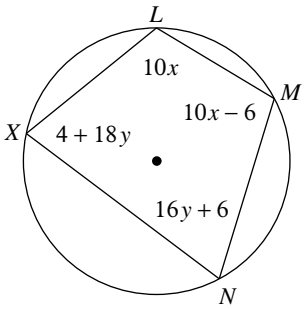
14) Find $m\widehat{FGH}$



238°

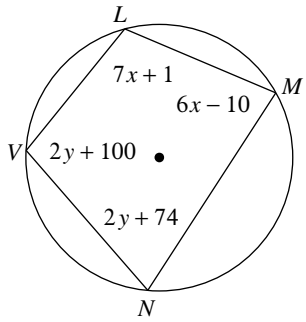
Solve for *x* and *y*.

15)



$x = 11,\ y = 4$

16)



$x = 15,\ y = 0$