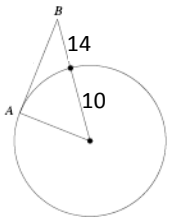
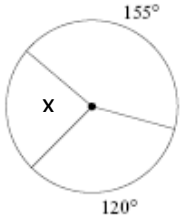
Honors Geometry Unit 10 Review Sheet **Name: _____**

Multiple Choice: Circle your final answer.

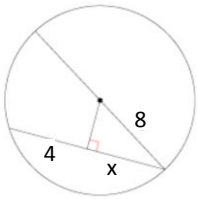
1. Assuming $\overline{AB}$ is tangent to the circle. Determine the value of AB.
   a. 10.3
   b. 21.8
   c. 26.5
   d. 59.9



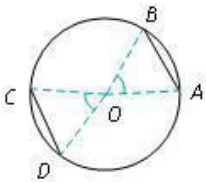
2. Find the value of x.
   a. 75°
   b. 85°
   c. 150°
   d. 170°



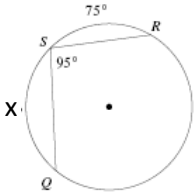
3. Find the value of x.
   a. $4\sqrt{3}$
   b. $8\sqrt{3}$
   c. 4
   d. 16



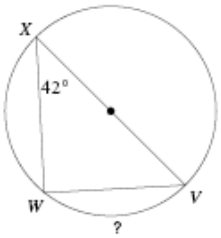
4. Given AB = 7, find CD.
   a. 7
   b. 14
   c. 60
   d. 45



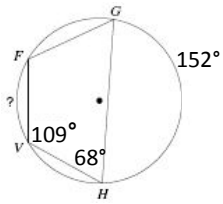
5. Find the value of x.
   a. 75°
   b. 85°
   c. 95°
   d. 100°



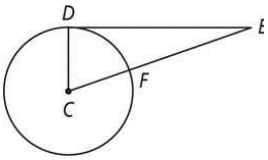
6. Find the measure of arc WV.
   a. 46°
   b. 84°
   c. 96°
   d. 24°



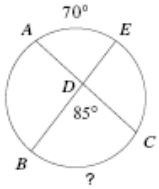
7. Find the measure of arc FV.
   a. 70°
   b. 66°
   c. 132°
   d. 28°



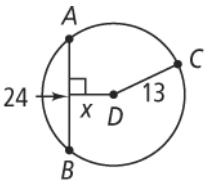
8. If DE = 40 and FE = 32, find the radius.
   a. 10
   b. 5.2
   c. 9
   d. 9.5



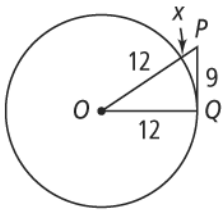
9. Find the measure of arc BC.
   a. 70°
   b. 85°
   c. 100°
   d. 170°



10. Find the value of x.
    a. 5
    b. 6
    c. 9
    d. 10

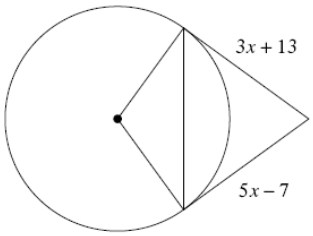


11. Find the value of x.
    a. 2
    b. 8
    c. 3
    d. 10

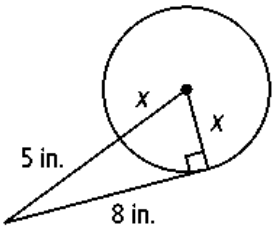


Short Answer: Show all your work.

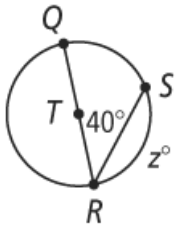
12. Solve for x.



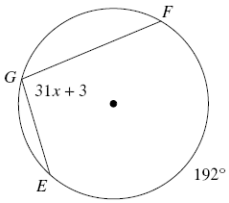
13. Solve for x.



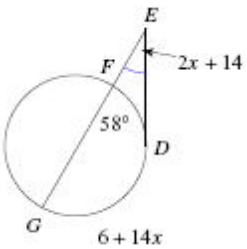
14. Find the value of z.



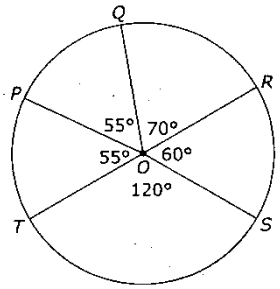
15. Find the value of x.



16. Solve for x.

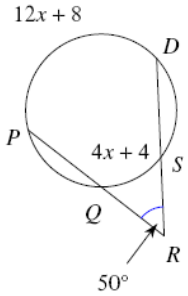


17. The diameter of circle O has a length of 16 ft. What is the approximate area of the sector bounded by ∠POR and arc PQR.

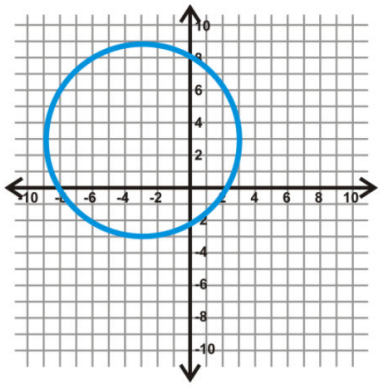


18. A 40-inch pendulum swings through an angle of 18°. Find the length of the arc in inches through which the end of the pendulum swings.

19. Find the value of x.



20. Write the equation for the circle below.



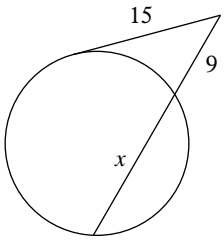
Name_____

Segment Lengths in Circles

Date_____ Period____

Solve for x. Assume that lines which appear tangent are tangent.

1)



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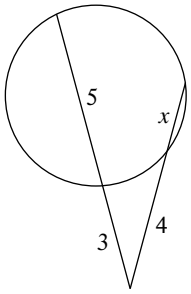

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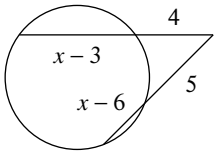

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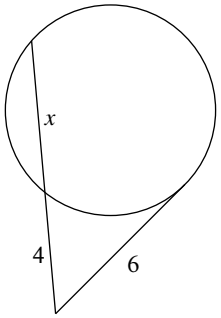

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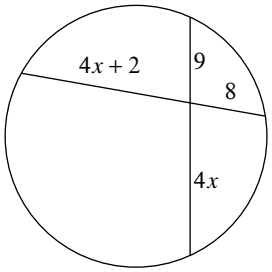

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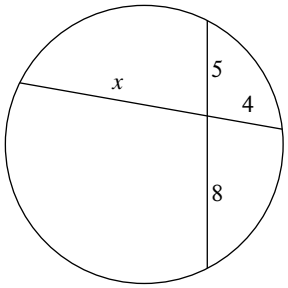

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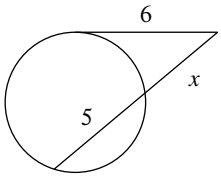

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