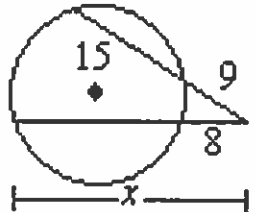
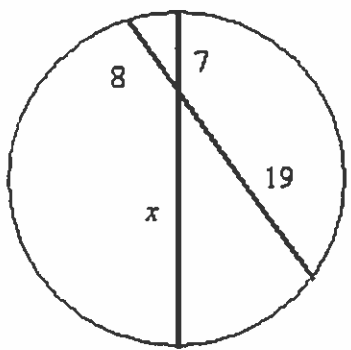


Q10B Advanced Geometry 10.4-10.7

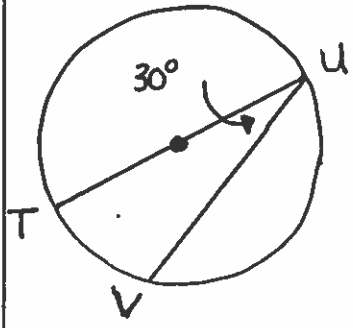
3.  find the value of x .

Find the value of x .

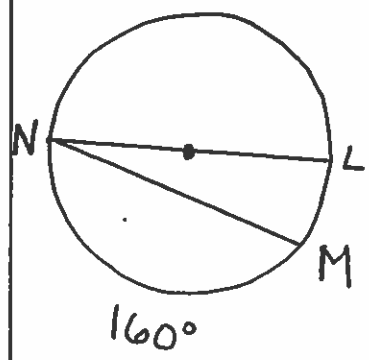
2.



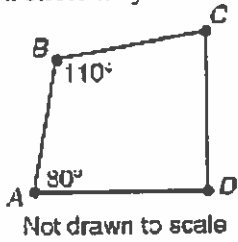
4. Find the indicated measure. $m\widehat{VU}$



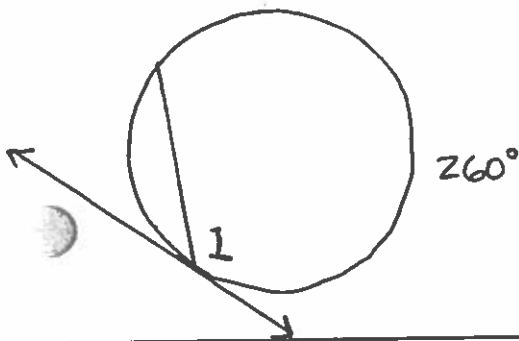
5. Find the indicated measure. $m\angle N$



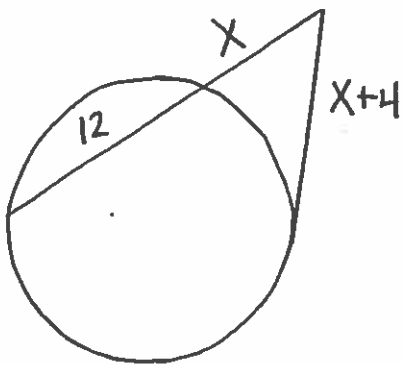
6. What must be the measures of $\angle C$ and $\angle D$ so that a circle may be circumscribed about $ABCD$?



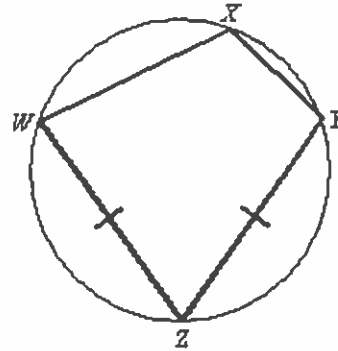
7. Find the indicated measure. $m\angle 1$



8. Find the value of x .



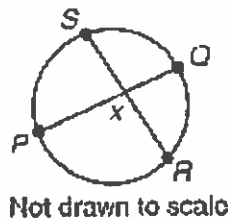
9. Given: $m\angle X = 110^\circ$; $\overline{WZ} \cong \overline{YZ}$; $m\angle Y = 100^\circ$



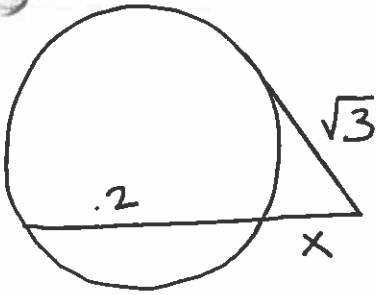
Refer to the diagram to find the measure of each of the following:

- $\angle Z$
- \widehat{WZ}
- $\angle W$
- \widehat{WX}

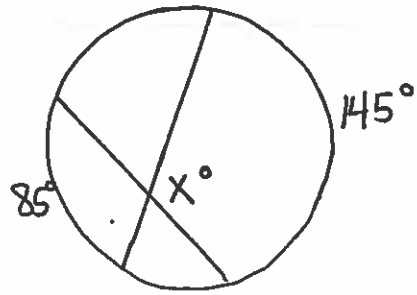
10. Given $m\widehat{SQ} = 106^\circ$, $m\widehat{PR} = 120^\circ$, find x .



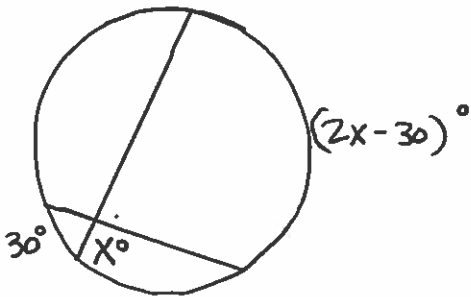
11. Find the value of x . Round to the nearest tenth.



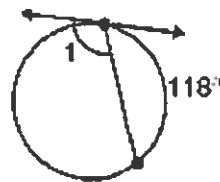
15. Find the value of x .



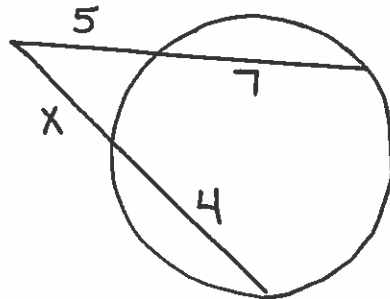
12. Find the value of x .



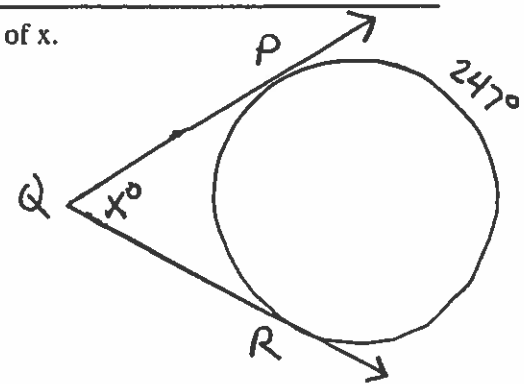
16. Find the measure of $\angle 1$.



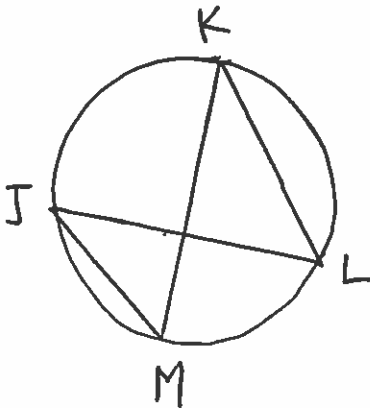
13. Find the value of x .



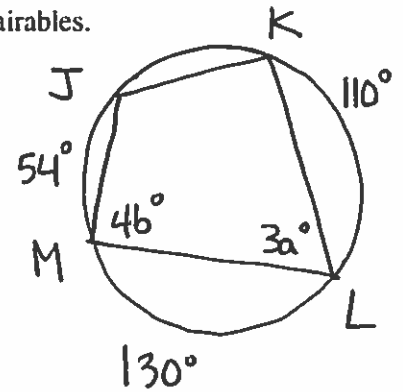
17. Find the value of x .



14. Name two pairs of congruent angles.



18. Find the values of the variables.



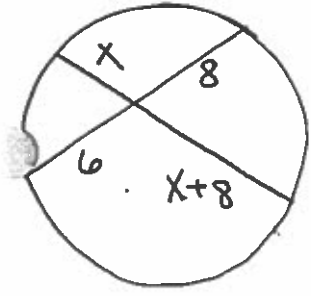
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20. Find the value of x .



Quiz 10B additional questions (10.7)

1. Write the standard equation of a circle with its center at the origin and radius 8.

- a. $x^2 + y^2 = 16$
b. $x^2 + y^2 = 64$
c. $\frac{x^2}{16} + \frac{y^2}{16} = 1$
d. $x^2 + y^2 = 8$

2. Write the standard equation of a circle with center $(-4, -1)$ and radius 3.

- a. $(x+4)^2 + (y+1)^2 = 9$
b. $(x+4)^2 + (y-1)^2 = 9$
c. $(x-4)^2 + (y-1)^2 = 3$
d. $(x-4)^2 - (y-1)^2 = 3$

3. Write the standard equation of a circle with center $(-3, -5)$ and radius 5.

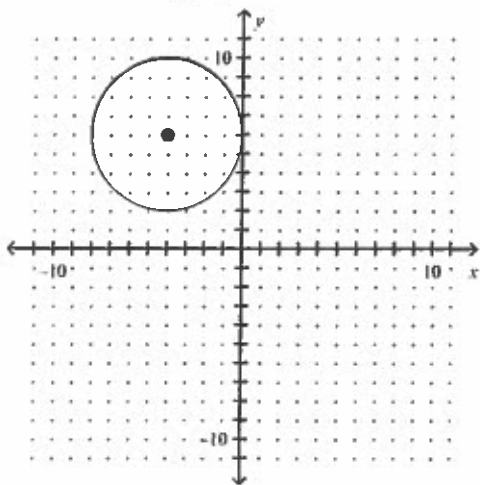
4. The standard equation of a circle with center $(-4, 3)$ and radius 7 is _____.

- a. $(x+4)^2 + (y-3)^2 = 49$
b. $(x+4) + (y-3) = 7$
c. $(x-4)^2 + (y+3)^2 = 7$
d. $(x-4)^2 + (y+3)^2 = 49$

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5. A small messenger company can deliver only in a small part of the city. Write an equation for the boundary where the company delivers, and find its radius. Each unit represents one block.



- a. $(x+6)^2 + (y-4)^2 = 32$; $r = 4$ blocks
b. $(x+6)^2 + (y-4)^2 = 32$; $r = 16$ blocks
c. $(x+4)^2 + (y-6)^2 = 16$; $r = 16$ blocks
d. $(x+4)^2 + (y-6)^2 = 16$; $r = 4$ blocks

-
6. Sketch the graph of $(x-4)^2 + (y+3)^2 = 25$. Label the coordinates of the center and the intercepts.

