

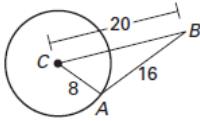
Geometry Chapter 10 Review

Name _____

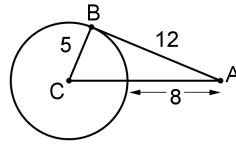
Block _____ Date _____

1. Is \overline{AB} tangent to $\odot C$? Explain your reasoning.

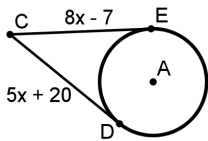
a.



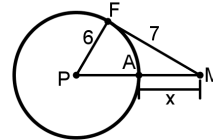
b.



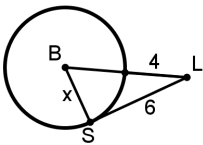
2. E and D are points of tangency. Solve for x.



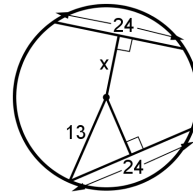
3. Given that \overline{FM} is tangent solve for x.



4. Given that \overline{LS} is tangent solve for x.



5. Solve for x.



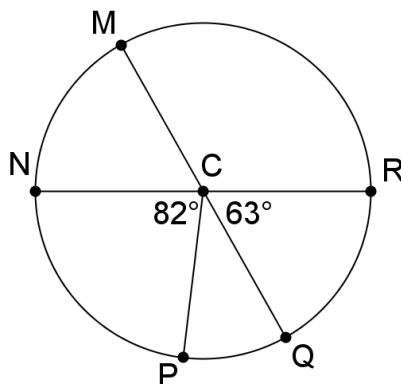
6. Find the indicated measure. \overline{MQ} and \overline{NR} are diameters of $\odot C$ in the image.

a. $m \widehat{MN} =$ _____

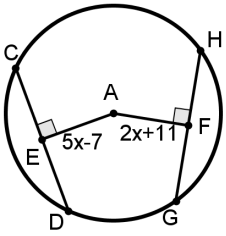
b. $m \widehat{NPR} =$ _____

c. $m \widehat{PQ} =$ _____

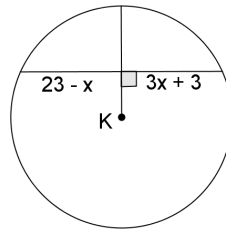
d. $m \widehat{MRP} =$ _____



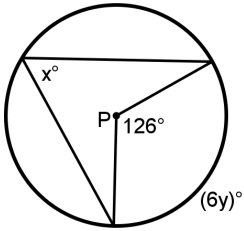
7. Solve for x in $\odot A$ given that $\overline{CD} \cong \overline{HG}$.



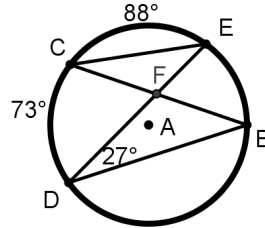
8. Solve for x in $\odot K$.



9. Solve for x and y in $\odot P$



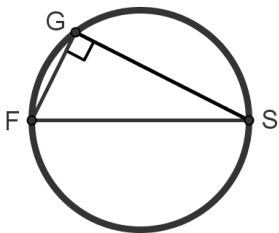
10. Determine the following values:



$$m\angle ECB = \underline{\hspace{2cm}} \quad m\angle CED = \underline{\hspace{2cm}}$$

$$m\angle CFE = \underline{\hspace{2cm}} \quad m\widehat{BD} = \underline{\hspace{2cm}}$$

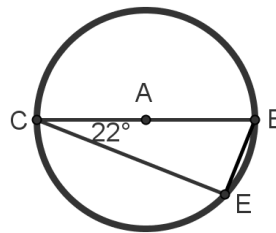
11. Which is the most specific name for \overline{FS} ?



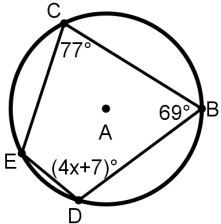
- Chord
- Secant
- Diameter
- Tangent

Explain your reasoning:

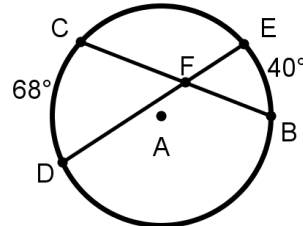
12. Given \overline{BC} is a diameter solve for $m\widehat{CE}$



13. Solve for x in the diagram.

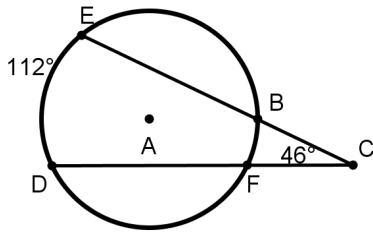


14. Determine the following values:

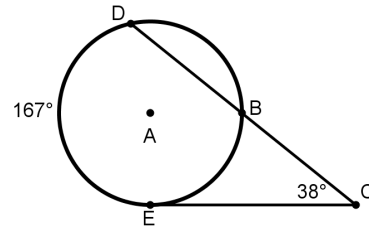


$$m\angle CFE = \underline{\hspace{2cm}} \quad m\angle BFE = \underline{\hspace{2cm}}$$

15. Solve for $m\widehat{BF}$.

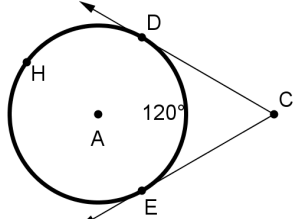


16. Determine the following values:



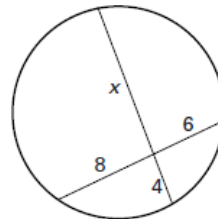
$m\widehat{BE} = \underline{\hspace{2cm}}$ $m\widehat{DB} = \underline{\hspace{2cm}}$

17. Determine the following values:

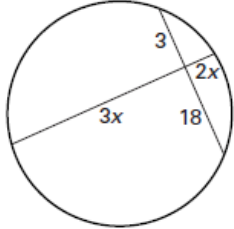


$m\widehat{DHE} = \underline{\hspace{2cm}}$ $m\angle DCE = \underline{\hspace{2cm}}$

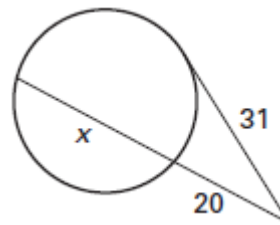
18. Solve for x.



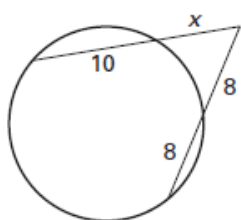
19. Solve for x.



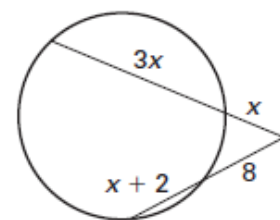
20. Solve for x.



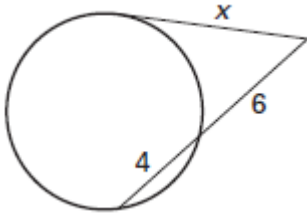
21. Solve for x.



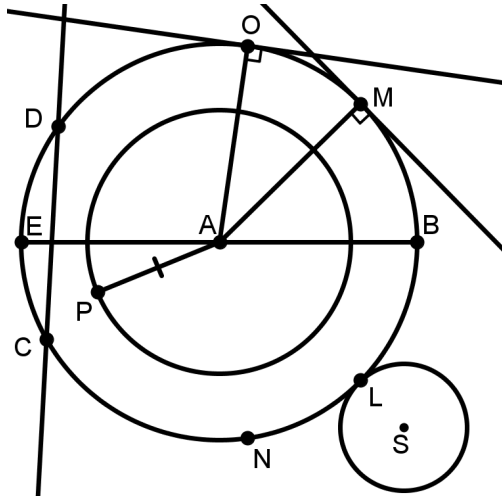
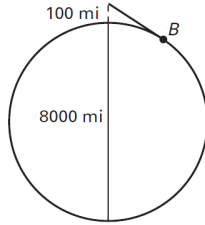
22. Solve for x.



23. Solve for x .



24. A satellite is orbiting approximately 100 miles above Earth. The furthest site that the satellite is able to take a photo of Earth is located at tangency point B . If Earth's diameter is approximately 8000 miles, what is the distance from the satellite to point B ?



25. Use proper mathematical notation to name an example of each term from the diagram.

- | | | |
|--|----------------------|----------------------------|
| a. Center | b. Chord | c. Diameter |
| d. Radius | e. Point of tangency | f. Common external tangent |
| g. Common internal tangent | h. Secant Line | i. Tangent circles |
| j. Concentric circles
(name center and radii) | k. Congruent circles | l. Central angle |
| m. Minor arc | n. Major arc | o. Semicircle |
| p. Inscribed angle | | |