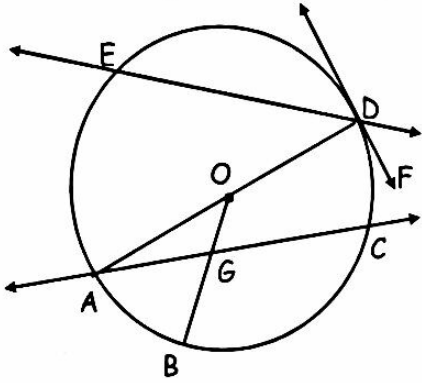


Unit 9 Review

Please be sure to show all your work.

Use the diagram to identify the vocabulary term that best describes the given symbol.

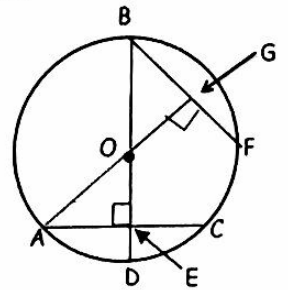


- | | | | | |
|---------------------------------|-------------------------------------|----------------------------------|------------------------------------|---|
| 1. \overline{OB}
Radius | 2. \overrightarrow{DF}
Tangent | 3. \overline{AD}
Chord | 4. $\angle EDA$
Inscribed Angle | 5. \overline{ED}
Chord |
| 6. \widehat{AEC}
Major Arc | 7. \widehat{BC}
Minor Arc | 8. $\angle AOB$
Central Angle | 9. \widehat{ACD}
Semicircle | 10. \overleftrightarrow{AC}
Secant |

Use the diagram and each set of given information to solve for the missing value.

11. $AC = 10, m\angle DOA = 45^\circ. OA = \underline{5\sqrt{2}}$

12. $AE = 6, OD = 10. ED = \underline{2}$



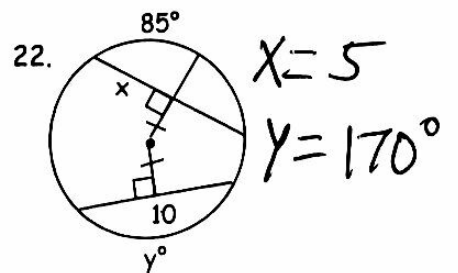
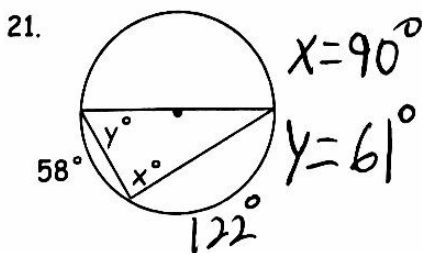
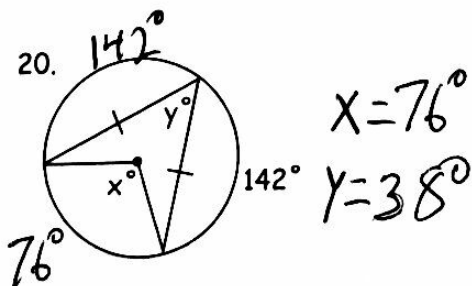
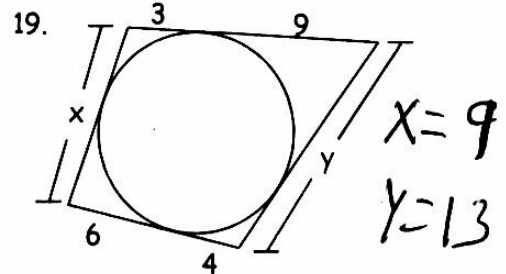
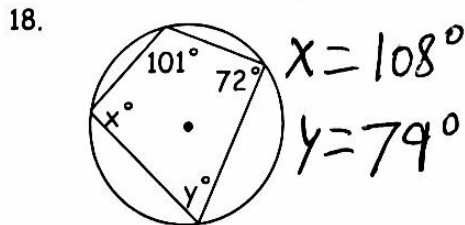
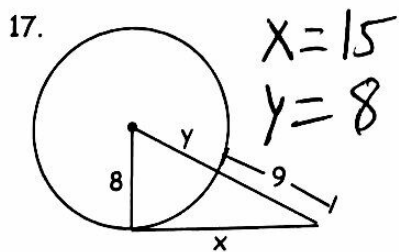
13. $BD = 26, EC = 12. OE = \underline{5}$

14. $m\angle OAE = 30^\circ. \widehat{AD} = \underline{60^\circ}$

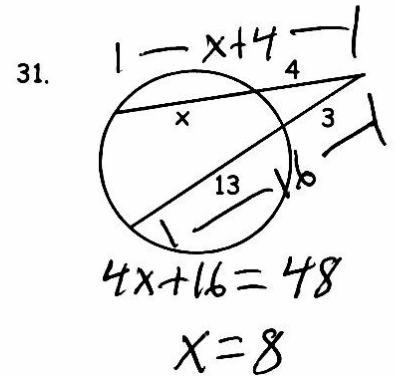
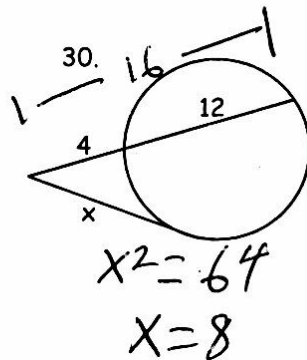
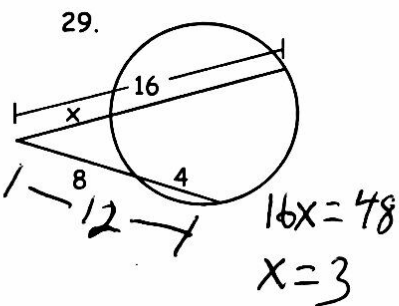
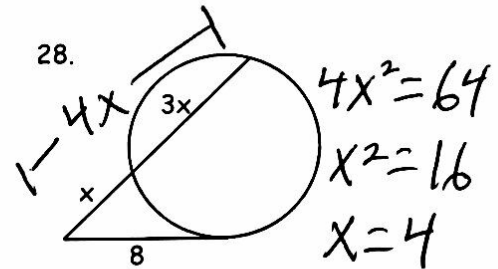
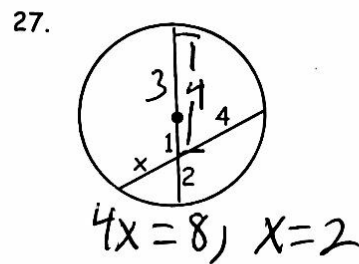
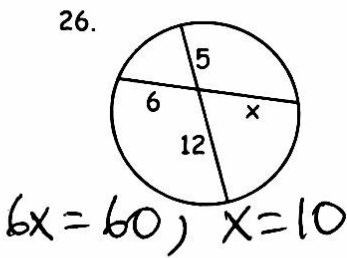
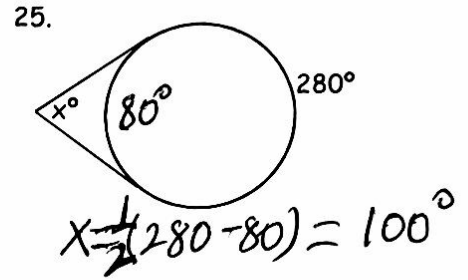
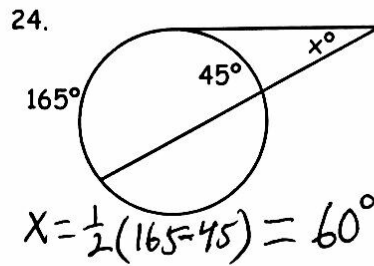
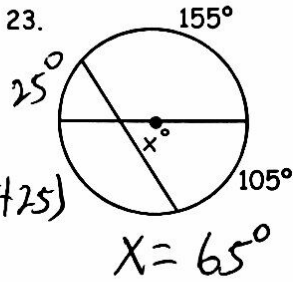
15. $OE = OG, AE = 8. BF = \underline{16}$

16. $AC = BF, \widehat{BF} = 88^\circ. \widehat{AD} = \underline{44^\circ}$

Solve for the value of x and y in each of the following.

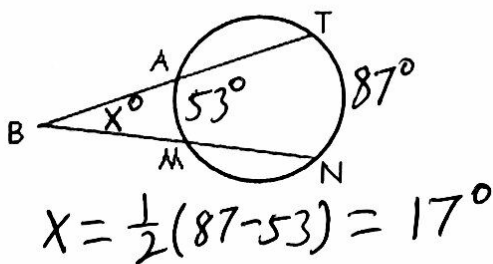


Write an equation to solve for the degree measures or length in each of the following.

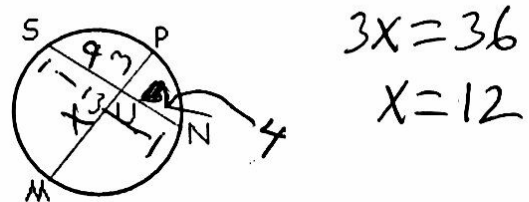


Solve for the missing angle, arc measure or length. Show work by writing an equation.

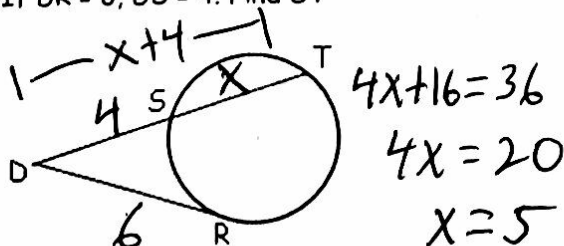
32. If $m\widehat{AM} = 53^\circ$ and $m\widehat{TN} = 87^\circ$. Find $\angle TBN$



33. If $SU = 9$, $PU = 3$, and $SN = 13$. Find MU



34. If $DR = 6$, $DS = 4$. Find ST



35. If $m\widehat{RA} = 53^\circ$ and $m\angle CVA = 93^\circ$. Find $m\widehat{IC}$

