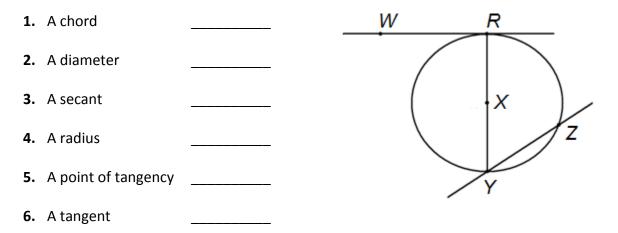
Name ______ Date ______ Period _____

DIRECTIONS: For #1-6, write a segment, line, ray, or point from this circle which matches the words.

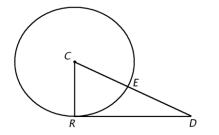


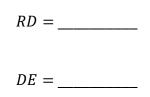
DIRECTIONS: For #7-26, solve the problems (use radicals when necessary). It will help to write in the diagrams (or make your own when none are provided).

7. What is the diameter of a circle with a radius of 18?

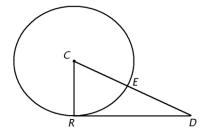
8. What is the radius of a circle with a diameter of 28?

9. \overline{RD} is tangent to circle C at R, $m \measuredangle RCE = 60^\circ$, and RC = 22. Find RD and DE.



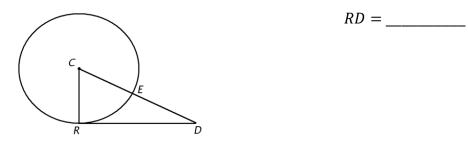


10. \overline{RD} is tangent to circle C at R, RD = 24, and CD = 25. Find RC.

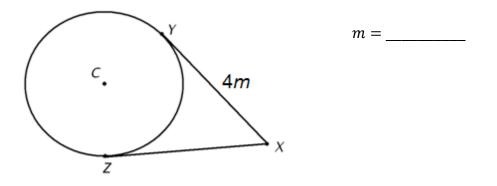


RC =

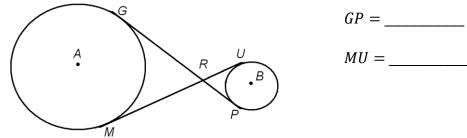
11. \overline{RD} is tangent to circle C at R, DE = 8, and CE = 6. Find RD.



12. \overline{XY} is tangent to circle C at Y, \overline{XZ} is tangent to circle C at Z, and XZ = 48. Solve for m.



13. \overline{GP} and \overline{MU} are common internal tangents of circle A and circle B, GR = 14 and RU = 5. Find GP and MU.

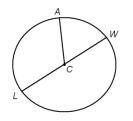


MU = _____

14. In circle C, $m \not\equiv WCA = 60^{\circ}$. Find $m \not\equiv AW$ and $m \not\equiv AA$.

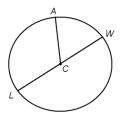


15. In circle $C, m AW = 63^\circ$. Find $\angle WCA$.

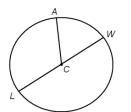


m∡*WCA* = _____

16. In circle $C, m \not\equiv LCA = 100^{\circ}$. Find m AWL.



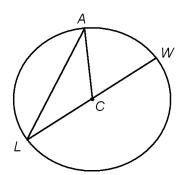
17. In circle $C, m \widetilde{WLA} = 293^\circ$. Find $\angle LCA$.



m≰*LCA* = _____

18. At 3 o'clock, the hands of a clock form an angle of what size (in degrees)?

19. In circle $C, m \neq LAC = 39^{\circ}$. Find $m \neq ALC$, $m \neq ACW$, and $m \neq AW$.

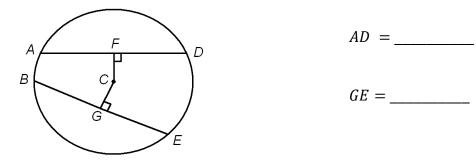


 $m \not =$

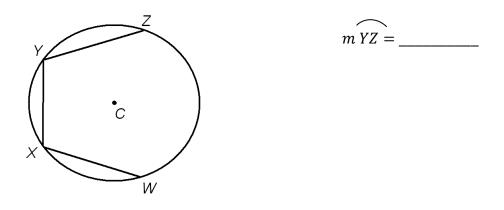
$$m \overrightarrow{AW} =$$

$$\widehat{mAWL} =$$

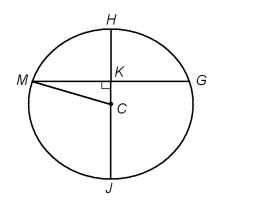
20. In circle C, CF = 7, CG = 7, and BG = 19. Find AD and GE.

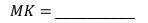


21. In circle C, YZ = 8, XW = 8, XY = 8, and $mWZ = 162^{\circ}$. Find mYZ.



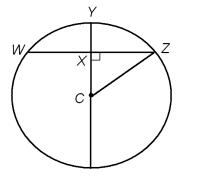
22. In circle C, KC = 3 and JC = 5. Find MK and KG.

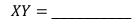




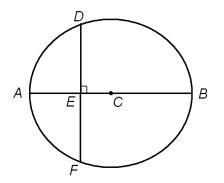
KG = _____

23. In circle C, XZ = 8 and CZ = 10. Find XY.



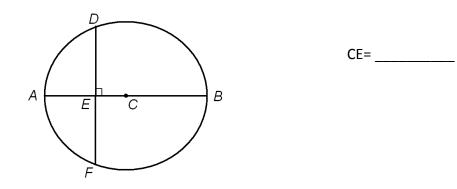


24. In circle *C*, $m \overrightarrow{ABF} = 320^\circ$. Find $m \overrightarrow{DF}$.





25. In circle C, AB = 24 and DF = 20. Find CE.



26. Find the length of a chord that is 4 cm from the center of a circle with a radius of 6 cm.

Length of chord = _____ cm