

Name _____ Date _____ Pd _____

10.1 - 10.5 Quiz Review CYU

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

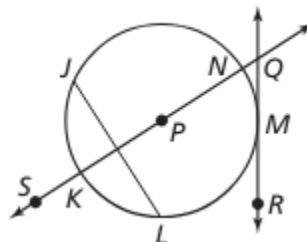
X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

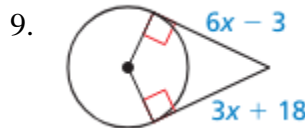
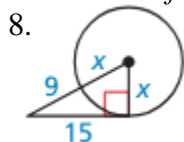
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Vocabulary terms & proper notation	1 - 7		
Tangent Line to a Circle Theorem	8		30
External Tangent Congruence Theorem	9		
Minor arcs, Major arcs, & Semicircles	10, 15	16, 17	18, 19, 23, 24, 33, 34
Central angles	10, 15	16, 17	31
Congruent Arcs	11, 12		
Chord Rules (all three from 10.3)	13	14	
Inscribed Angles & Polygons (10.4)	20 - 22	25 - 32	35 - 57
Angle Relationships in Circles (10.5)		35 - 43	44 - 57

Use the diagram to name, using proper notation, an answer for the following terms.

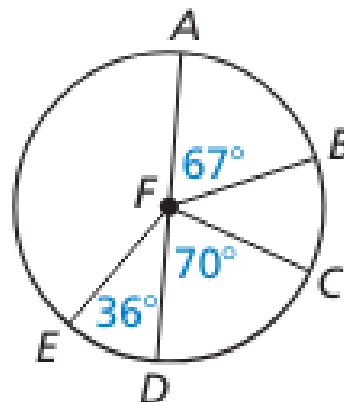
1. the circle
2. a radius
3. a diameter
4. a chord
5. a secant
6. a tangent
7. point of tangency



Find the value of x . Show all work for full credit.

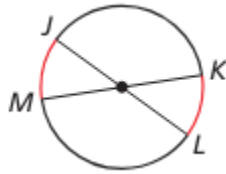


10. Complete the rest of the circle. Fill in missing angles and arc measures. Then list two minor arcs and two major arcs, and a semicircle.

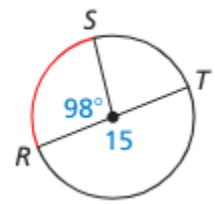
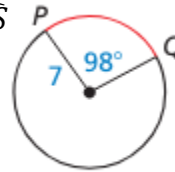


Explain in words whether the arcs are congruent or not. Justify your answer.

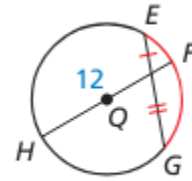
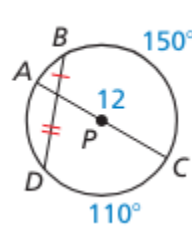
11. \widehat{JM} & \widehat{KL}



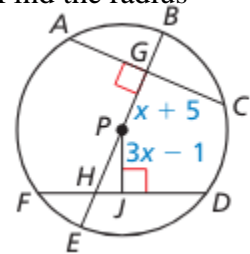
12. \widehat{PQ} & \widehat{RS}



13. Find $m\widehat{EG}$.



14. In the diagram, $AC = FD = 30\text{ft}$, $PG = (x + 5)$ ft, and $PJ = (3x - 1)$ ft. Find the radius of circle P.



A circular clock can be divided into 12 congruent sections.

15. Find the measure of each arc in this circle.

16. Find the measure of the minor arc formed by the hour and minute hands when the time is 7:00.

17. Find a time at which the hour and minute hands form an arc that is congruent to the arc in part (b).



In $\odot P$, $m\widehat{AB} = 70^\circ$, $m\widehat{AE} = 80^\circ$, $m\widehat{ED} = 150^\circ$, $m\angle BFH = 55^\circ$. Find the following measures.

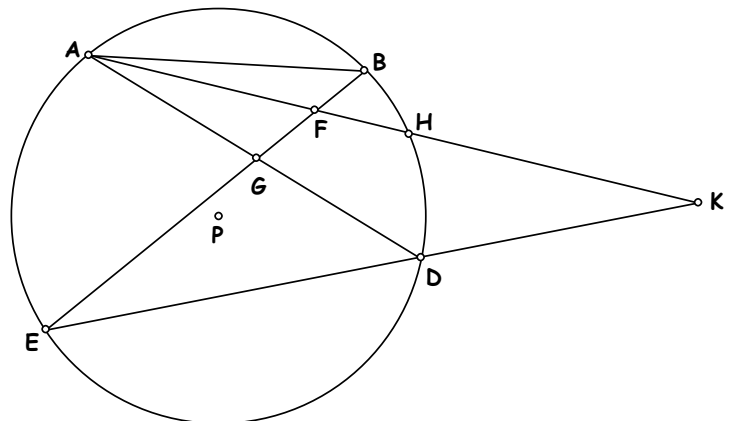
18. $m\widehat{BH} = \underline{\hspace{2cm}}$

19. $m\widehat{HD} = \underline{\hspace{2cm}}$

20. $m\angle AGE = \underline{\hspace{2cm}}$

21. $m\angle DGE = \underline{\hspace{2cm}}$

22. $m\angle ADK = \underline{\hspace{2cm}}$



In $\odot P$, \overleftrightarrow{AS} and \overleftrightarrow{AM} are tangents; \overline{TR} is a diameter; $m\widehat{TB} = 20^\circ$, $m\widehat{MG} = 60^\circ$, $m\widehat{GR} = 65^\circ$, $m\widehat{RS} = 125^\circ$. Find the following measures.

23. $m\widehat{BM} =$ _____

24. $m\widehat{ST} =$ _____

25. $m\angle 1 =$ _____

26. $m\angle 2 =$ _____

27. $m\angle 3 =$ _____

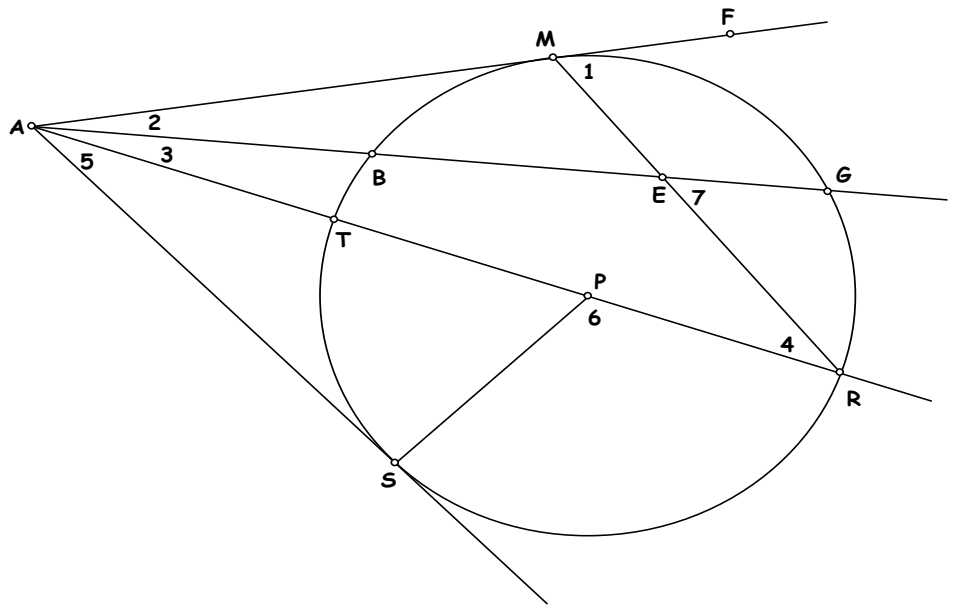
28. $m\angle ASP =$ _____

29. $m\angle 4 =$ _____

30. $m\angle 5 =$ _____

31. $m\angle 6 =$ _____

32. $m\angle 7 =$ _____



In $\odot O$, \overleftrightarrow{EF} is tangent at D , \overline{GA} bisects $\angle BGD$, $m\widehat{AB} = 88^\circ$ and $m\widehat{DG} = 62^\circ$. Find the following measures.

33. $m\widehat{DA} =$ _____

34. $m\widehat{GB} =$ _____

35. $m\angle 1 =$ _____

36. $m\angle 2 =$ _____

37. $m\angle 3 =$ _____

38. $m\angle 4 =$ _____

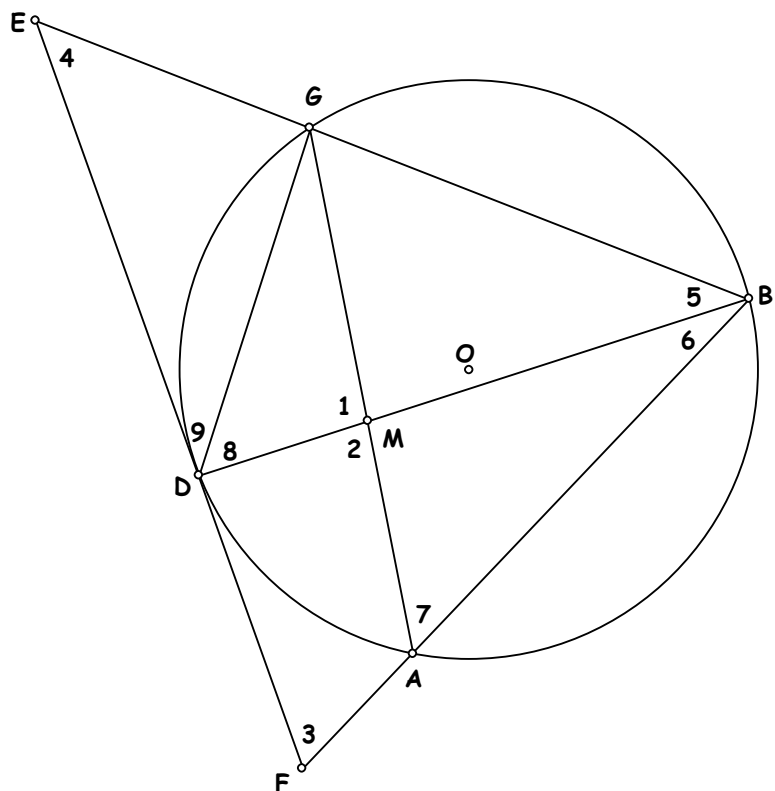
39. $m\angle 5 =$ _____

40. $m\angle 6 =$ _____

41. $m\angle 7 =$ _____

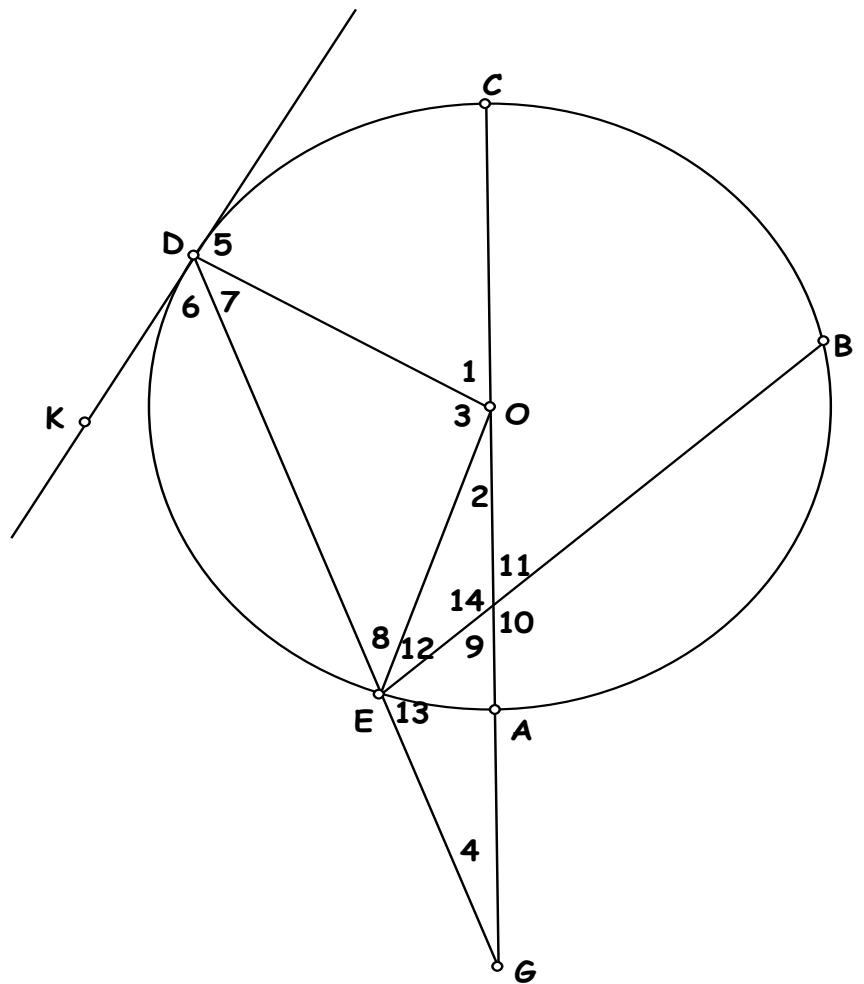
42. $m\angle 8 =$ _____

43. $m\angle 9 =$ _____



Points A, B, C, D, and E lie on $\odot O$. DK is tangent at D . $m\widehat{BC} = 80^\circ$, $m\widehat{CD} = 70^\circ$, $m\widehat{EA} = 30^\circ$. Find the measure of each numbered angle.

44. $m\angle 1 =$ _____
45. $m\angle 2 =$ _____
46. $m\angle 3 =$ _____
47. $m\angle 4 =$ _____
48. $m\angle 5 =$ _____
49. $m\angle 6 =$ _____
50. $m\angle 7 =$ _____
51. $m\angle 8 =$ _____
52. $m\angle 9 =$ _____
53. $m\angle 10 =$ _____
54. $m\angle 11 =$ _____
55. $m\angle 12 =$ _____
56. $m\angle 13 =$ _____
57. $m\angle 14 =$ _____



CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

