Name:	Keu		
Date:		Period:	

Use pages 651 – 653 of your Geometry textbook to help you fill out the vocab chart below.

Vocabulary Term	Definition	Example/sketch/notation
Circle	the set of all points in a plane that are equidistant from a point called the center of the circle	c c
Radius	a segment whose endpoints are the center and any point on the circle	
Diameter	a chord that contains the center of the circle	d
Secant	a line that intersects a circle in two points	secant
Chord	a segment whose endpoints are on a circle	Chord
Tangent	a line in the plane of the circle that intersects the circle in exactly one point	tangent
Point of Tangency	the point where the tangent line meets the	point of tangency

Use the vocabulary chart above to complete the following.

1.	The <u>Interior</u> of a circle is the set of all points inside the circle.	
2.	A <u>Secont</u> is a line that intersects a circle at two points.	
3.	Is a diameter a chord? Why or why not? Yes, because a shord is a segment and so is	
	the diameter. The diameter is a special type of chord that contains the center	

4. What is the difference between a chord and a secant? A chord is a segment so it never goes outside the edge of the circle. A secant is a line so it passes through and extends pass the outside edge of the circle

Match the notation with the term that best describes it.

5. D

A. Center

6. \overrightarrow{DE}

B. Chord

7. \overline{CD}

8. \overline{AB}

D. Radius

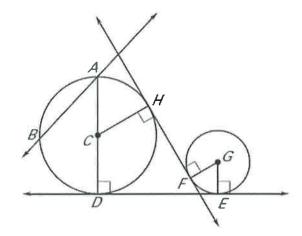
9. *C*

__A _____ Point of tangency

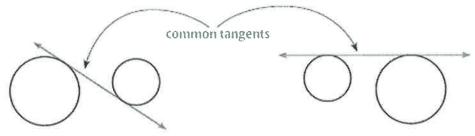
10. *AB*

11. \overline{AD}

6. Secant

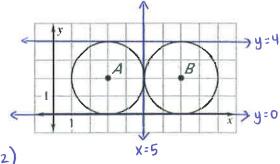


A line, ray, or segment that is tangent to two coplanar circles is called a common tangent.



Use the diagram below to find the following lengths.

- 12. What are the diameter and radius of $\bigcirc A$?
- 13. What are the diameter and radius of $\odot B$?
- 14. What can you conclude about $\odot A$ and $\odot B$? They are & circles
- 15. What is the point of intersection of $\odot A$ and $\odot B$? (5,2)



16. Draw all common tangents to $\odot A$ and $\odot B$. Write the equations of the tangent lines.

If you need extra examples of the material covered in questions 1 – 16, look at Examples 1 – 3 on pages 651 – 653 of your Geometry textbook ©