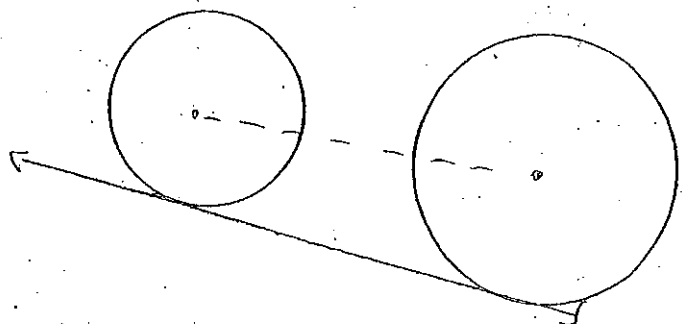
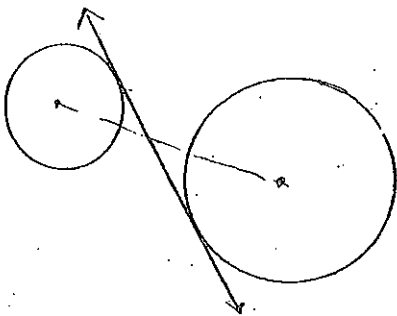


## Circle Notes

1. Circle: the set of all points in a plane equidistant from a given point called the center. A \_\_\_\_\_ is named by \_\_\_\_\_ (These points are "on" the circle).
2. Radius (radii): distance from the center to a \_\_\_\_\_; 2 circles are congruent if the \_\_\_\_\_ are \_\_\_\_\_; a \_\_\_\_\_ has one endpoint at the \_\_\_\_\_ of the circle and the other \_\_\_\_\_.
3. Diameter: a diameter is a \_\_\_\_\_ whose endpoints are \_\_\_\_\_ the circle and must pass \_\_\_\_\_ of the circle.
4. Chord: a chord is a \_\_\_\_\_ whose endpoints are \_\_\_\_\_; a \_\_\_\_\_ is a special case of a chord.
5. Secant: a \_\_\_\_\_ that intersects a circle in \_\_\_\_\_.
6. Tangent: a \_\_\_\_\_ that intersects a circle at exactly \_\_\_\_\_.
7. Point of Tangency – where the \_\_\_\_\_ touches the circle.
8. Coplanar circles that touch one time are called \_\_\_\_\_.
9. Concentric circles are \_\_\_\_\_ circles that have the \_\_\_\_\_.
10. A line (or segment) that is tangent to 2 circles is a \_\_\_\_\_. There are two different types of \_\_\_\_\_ tangents – a) common \_\_\_\_\_ tangents and common \_\_\_\_\_ tangents. If you draw a segment that connects the centers of two circles and that segment crosses the line tangent to both circles, then the tangent is a common \_\_\_\_\_ tangent. If you draw a segment that connects the centers of two circles and that segment does not cross the line tangent to both circles, then the tangent is a common \_\_\_\_\_ tangent.



Use the circle below to answer the following.

11. Name the circle.

12. List all radii

13. List all diameters

14. List all chords

15. Name a tangent

16. Name a secant

17. If segment  $GI=14$ , then find  $AH$

18. Segment  $HC$  is \_\_\_\_\_ to segment  $JK$

