

# Geometry

## 10.1 Lines and Segments that Intersect Circles

### Circle

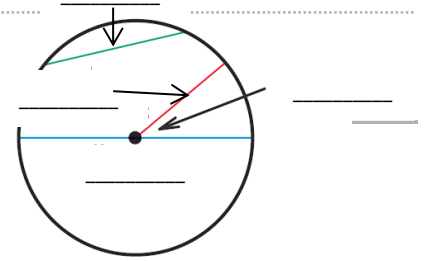
- All the \_\_\_\_\_ a given \_\_\_\_\_ from a central \_\_\_\_\_ in a plane
- Named by the \_\_\_\_\_

\_\_\_\_\_ ( ) - the \_\_\_\_\_ from the \_\_\_\_\_ of the circle to the \_\_\_\_\_.

\_\_\_\_\_ - line \_\_\_\_\_ that connects two \_\_\_\_\_ on a circle.

\_\_\_\_\_ ( ) - \_\_\_\_\_ that goes through the \_\_\_\_\_ of the circle (longest chord = 2 radii)

- \_\_\_\_\_ = \_\_\_\_\_



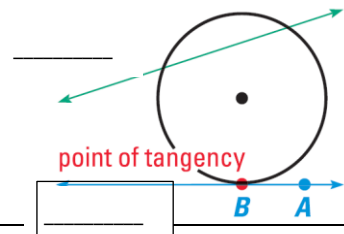
What is the radius of a circle if the diameter is 16 feet?

### Secant

- Line that \_\_\_\_\_ a circle \_\_\_\_\_

### Tangent

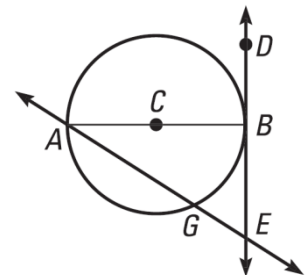
- Line that \_\_\_\_\_ a circle \_\_\_\_\_



What word best describes  $\overline{AG}$ ?

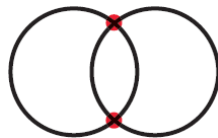
What word best describes  $\overline{CB}$ ?

Name a tangent and a secant.



Two circles can intersect in...

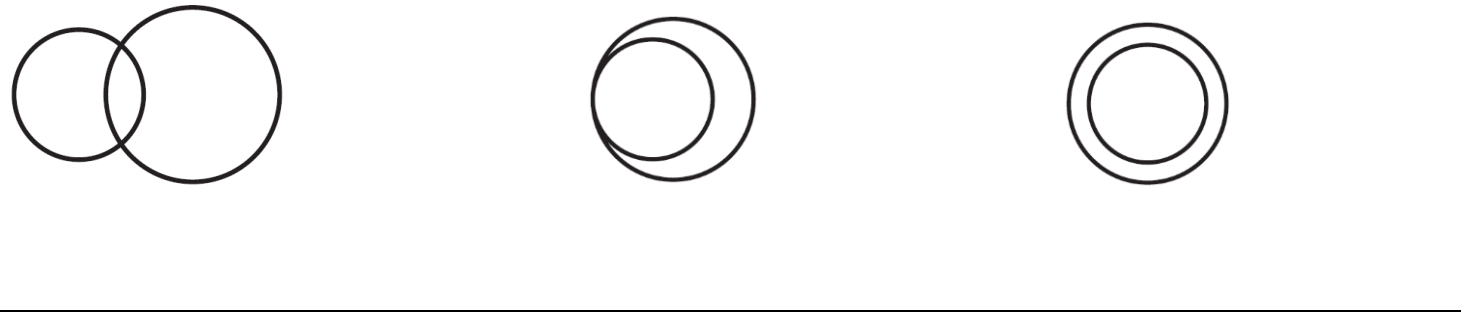
- \_\_\_\_\_ points
- \_\_\_\_\_ point
- \_\_\_\_\_ points



**Common tangents**

Lines \_\_\_\_\_ to \_\_\_\_\_ circles

How many common tangents do the circles have?

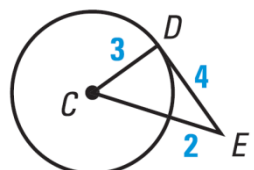


**Tangent lines are \_\_\_\_\_ to \_\_\_\_\_.**

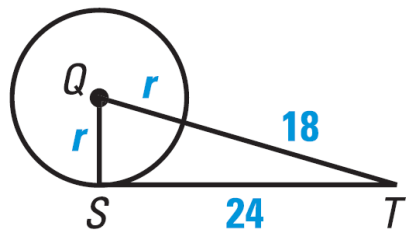


**Tangent segments from the same \_\_\_\_\_ are \_\_\_\_\_.**

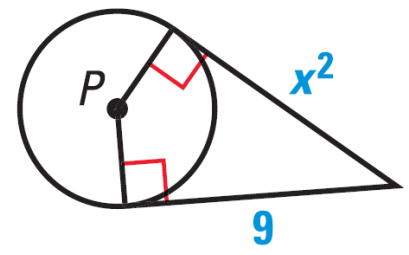
Is  $\overline{DE}$  tangent to  $\odot C$ ?



$\overline{ST}$  is a tangent to  $\odot Q$ . Find the value of  $r$ .



Find the value of  $x$ .



Assignment: 516 #2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 26, 28, 32, 38, 45, 46, 51, 52, 53 = 20 total