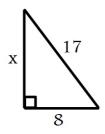
# Spiral Review:

1. Factor

a.) 
$$x^2 + 8x + 12$$

b.) 
$$x^2 - 5x = 24$$

3. Solve for x.

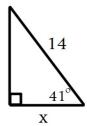


2. FOIL

a.) 
$$(x-1)(x+3)$$

b.) 
$$(3x+2)(x-4)$$

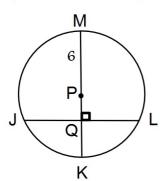
4. Solve for x.



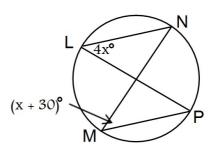
#### 10.1 - 10.4 Review

- 1. Draw a circle with a radius and a chord.
- 2. Draw a central angle.

3. JL = 10 Find PQ.



4. Find x.



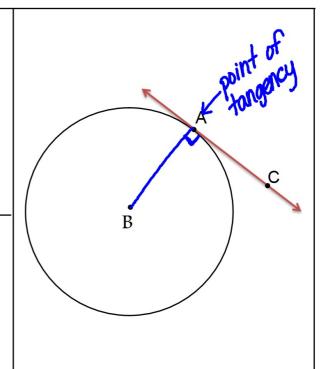
## p. 732 10.5 Tangents

A <u>tingent</u> is a <u>line</u> in the same plane as a circle that intersects the circle in exactly one point, called the <u>point</u> of

tangency example. At istangent to OB

\*\*A line is tangent to a circle if and only if it is perpendicular to a mains drawn to the point of tangency.

example: LCAB=90°



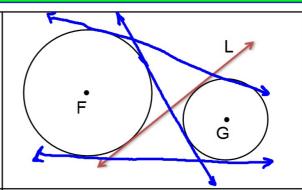
#### p. 732 10.5 Tangents

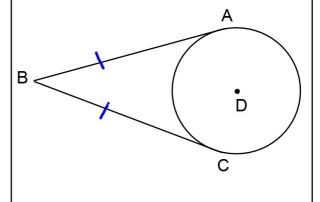
Common Tangent is a line, ray, or segment that is \_\_\_\_\_\_\_\_ to two \_\_\_\_\_\_.

example. see figure (line must touch each circle only once)

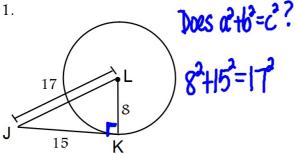
If two **segments** from the same exterior point are **tangent** to a circle, then they are **congruent**.

example: Set equal to solve

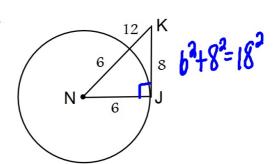


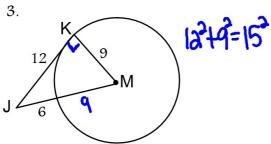


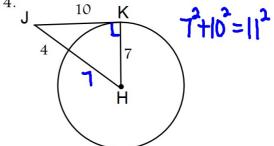
**Example 1:** Determine whether each  $\overline{JK}$  is tangent to the given circle.



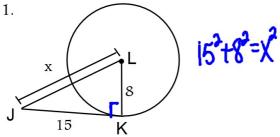
2.

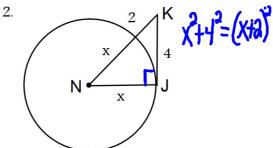


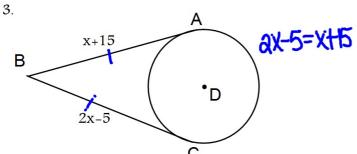


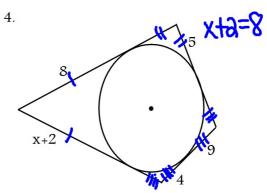


## Example 2: Find x.









Turn-in: Quick Check 10.5

HW: Wbk p. 131-132 all