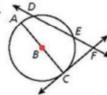
121 HOMEWORK Page 797-799 #1-3, 12-14, 16-22, 26, 31-33, 38, 40

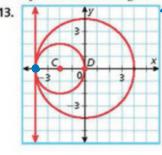
Vocabulary Apply the vocabulary from this lesson to answer each question.

- A 2 is a line in the plane of a circle that intersects the circle at two points. (secant or tangent)
- 2. Coplanar circles that have the same center are called ? . (concentric or congruent)
- 3. $\bigcirc Q$ and $\bigcirc R$ both have a radius of 3 cm. Therefore the circles are ? . (concentric or congruent)

Identify each line or segment that intersects each circle.



Multi-Step Find the length of each radius. Identify the point of tangency and write the equation of the tangent line at this point.



$$OC = 2$$



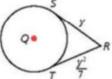
Equation: X=4

The segments in each figure are tangent to the circle. Find each length.

16. AB



17. RT



tangent - tangent: $2x^2 = 8x$ If x = 0: Ac=0 $2x^2 - 8x = 0$ 2x(x-4) = 0 2x(x-4) = 0 2x = 0

Tell whether each statement is sometimes, always, or never true.

18. Two circles with the same center are congruent. S





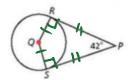
- A tangent to a circle intersects the circle at two points. N − only once
- 20. Tangent circles have the same center.
- 21. A tangent to a circle will form a right angle with a radius that is drawn to the point of tangency.
- 22. A chord of a circle is a diameter. S



yay! diameter!

In each diagram, \overline{PR} and \overline{PS} are tangent to $\odot Q$. Find each angle measure.

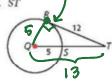
26. m/Q



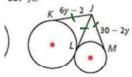
 $\angle Q + \angle R + \angle P + \angle S = 360^\circ$ ble it is a quadrilateral! $\angle Q + 90 + 42 + 90 = 360$ (more specifically... a Kite) $\angle Q = 138^\circ$

Algebra Assume the segments that appear to be tangent are tangent.

Kadous - langent



Tangent Tangent



$$6y-2=30-2y$$

 $8y=32$