

Question 1:

Draw the common tangents of the circles and tell how many tangents there are.



Question 2:

If AB is tangent to the circle, find x .



Solution 2:

Since line AB is tangent to the circle, it forms a perpendicular to the radius AC . A right angle triangle is formed. So, we can use Pythagoras's theorem.

$$AB^2 + AC^2 = CB^2$$

Note that the measure of CB is not entirely marked on the figure (we need to account for the radius of the circle that is not marked). So, $CB = (15+x)$.

$$x^2 + 15^2 = (15+x)^2$$

$$x^2 + 15^2 = 225 + 30x + x^2$$

Cancel what is common

$$15^2 = 30x + x^2 - x^2 = 30x$$

$$225 = 30x$$

Divide both sides by 30

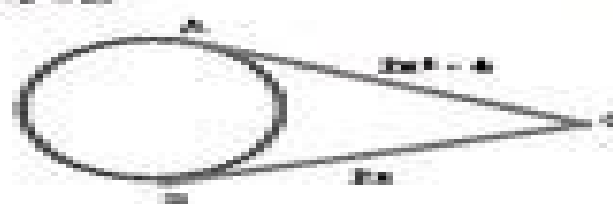
$$x = 7.5$$

Divide both sides by 30

Divide both sides by 30

Question 3:

Given that A , B , C are points of tangency, find BC .



Solution 3:

By Tangent-Tangent Congruence Theorem,
 $AC = BC$.

$$2x + 4 = 3x$$

$$x + 4 = x$$

Subtract 4 from both sides by 4

$$x + 4 - 4 = x - 4$$

is 4 units below

$$x + 4 - 4 = x - 4$$

Subtract 4 from 4 to get 0

$$x + 0 = x - 4$$

is 4 units below

$$x = x - 4$$

Since x is a length, it cannot be negative. Therefore, $x = 4$.

$$BC = 3x$$

$$BC = 3(4)$$

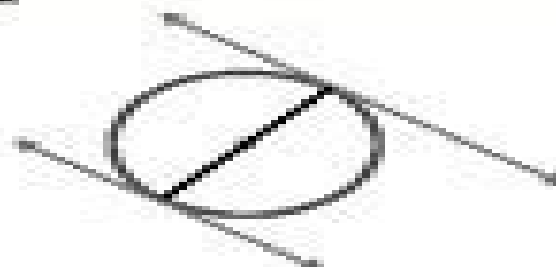
$$BC = 12 \text{ units}$$

Question 4:

Is it possible for two tangent lines to the same circle to never intersect? Why or why not?

Solution 4:

Yes. The two tangents of the same circle may never intersect if they are parallel. This happens when they are on opposite ends of the circle.



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