

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.

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

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, $CB = (5+x)$.

$$5^2 + 12^2 = (5+x)^2$$

$$25 + 144 = 25 + 10x + x^2$$

$$169 = 25 + 10x + x^2$$

$$144 = 10x + x^2$$

$$144 = 10x$$

$$x = 14.4$$

Circle's area is 169.

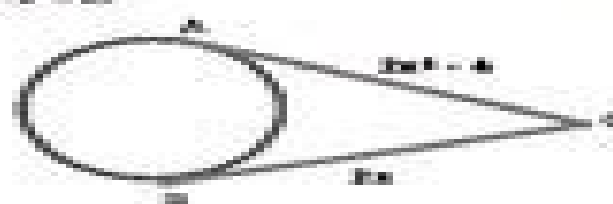
Substituting 14.4 for x in the equation.

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Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x + 4 = x$$

$$x + 4 = x + 0$$

$$x + 4 = x + 0$$

$$(x + 4) + 0 = 0$$

$$x + 4 = 0$$

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

$$BC = 3x$$

$$BC = 3(4)$$

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

Substituting 4 for x in the equation.

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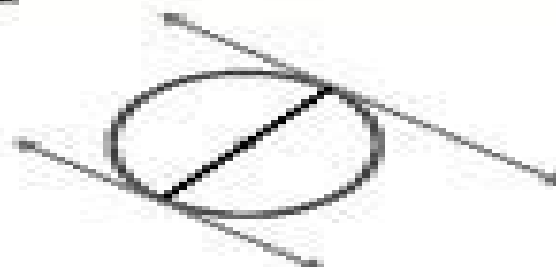
Substituting 4 for x in the equation.

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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