

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, $CB = (2x + x)$.

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

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

Cancel what you can.

$$x^2 = x^2 + 25x = x^2 + 25x$$

$$x^2 = x^2 + x^2 + 25x$$

Subtract x^2 on both sides.

$$x^2 = 25x$$

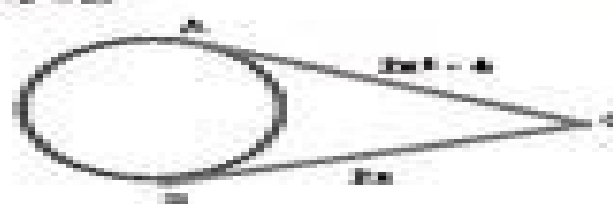
Subtract x^2 on both sides.

$$x = 25$$

Divide by x on both sides.

Question 3:

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



Solution 3:

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

$$2x + x = 2x$$

$$x^2 + 2x = x^2$$

Divide both sides by x .

$$x^2 + x + 2 = 0$$

is a quadratic equation.

$$x^2 + x + 2 = 0$$

Distance of x from 0 is 2 .

$$(x + 2)(x + 1) = 0$$

Distance of x from 0 is 2 .

$$x = 2 \text{ or } x = -1$$

Since x is a length, it cannot be negative. Therefore, $x = 2$.

$$BC = 2x$$

$$BC = 2(2)$$

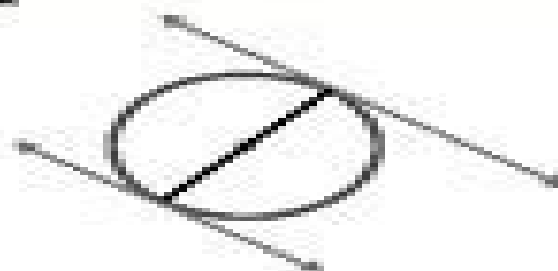
$$BC = 4 \text{ units}$$

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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