

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, $CB = (x) + 6$.

$$x^2 + 6^2 = (x+6)^2$$

$$x^2 + 36 = x^2 + 12x + 36$$

Cancel what is common

$$x^2 + 36 = x^2 + 12x + 36$$

$$x^2 + 36 = x^2 + 12x + 36$$

Subtract x^2 on both sides

$$36 = 12x + 36$$

Subtract 36 on both sides

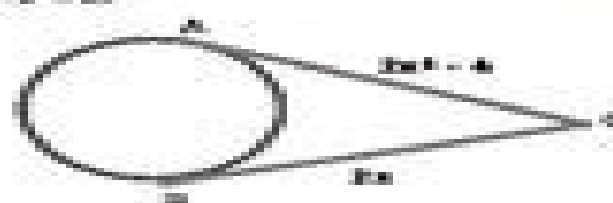
$$0 = 12x$$

Divide by 12 on both sides

$$x = 0$$

Question 3:

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



Solution 3:

By Tangent Congruence Theorem,
 $AC = BC$

$$2x + 6 = 3x$$

$$x^2 - 3 = x$$

Subtract 6 from both sides by 6

$$x^2 - x - 3 = 0$$

is a quadratic equation

$$x^2 - x - 3 = 0$$

Use formula of 2 terms if b, c

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

if $a = 1, b = -1$

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

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

$$BC = 3x$$

$$BC = 3(2)$$

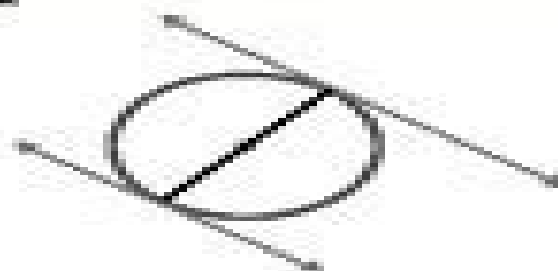
$$BC = 6 \text{ units}$$

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.



12 Lines That Intersect Circles Answers

EW Minium



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