

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, $CB = CD + x$.

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

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

Cancel what is common

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

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

Subtract x^2 on both sides

$$36 = 12x$$

Subtract 36 on both sides

$$x = 3$$

Divide by 12 on both sides

Question 3:

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



Solution 3:

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

$$2x + 6 = 2x$$

$$x^2 + 2 = x$$

Subtract 2 on both sides by 2

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

Factor the equation

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

Subtract 2 from 2 and 2 to 0

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

Use FOIL

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

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.



1lines That Intersect Circles Answers

**Frank Millett Morgan, John Albert
Foberg, William Edwin Breckenridge**



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