

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  $x^2$  and  $36$  from both sides

$$0 = 12x$$

Subtract  $12x$  from both sides

$$x = 0$$

Divide by 12 and both sides

Question 3:

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



Solution 3:

By Tangent-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

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

Subtract  $x^2$  from both sides

$$-x - 3 = 0$$

Divide by -1

$$x = 3$$

Since  $x$  is a length, it cannot be negative. Therefore,  $x = 3$ .

$$BC = 3x$$

$$BC = 3(3)$$

$$BC = 9 \text{ units}$$

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.



# Lesson 121 Practice A Lines That Intersect Circles

## Answers

**J Spring**



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**The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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