

Question 1:

Draw the common tangents of the circles and tell how many tangents there are.



Question 2:

If  $\overline{AB}$  is tangent to the circle, find  $x$ .



Solution 2:

Since line  $\overline{AB}$  is tangent to the circle, it forms a perpendicular to the radius  $\overline{AC}$ . 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,  $CB = (2x+x)$ .

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

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

Cancel what you can.

$$3x^2 + x^2 = 2x^2 + 4x^2 + 4x^2 + x^2$$

$$4x^2 + x^2 = 4x^2 + 5x^2 + x^2$$

Subtract  $4x^2$  on both sides.

$$3x^2 = 5x^2 + x^2$$

Subtract  $5x^2$  on both sides.

$$x = -2$$

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

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

Subtract 3 on both sides by 3.

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

is a quadratic equation.

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

Subtract  $-3$  from 3 on both sides.

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

Use FOIL.

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

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

$$BC = 3x$$

$$BC = 3(2)$$

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

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.



# Lines That Intersect Circles 11answer

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## **Lines That Intersect Circles 11answer:**

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