

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,  $CB = (x+6)$ .

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

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

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

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

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

$$x = 12$$

Subtract both sides

Subtract  $x^2$  and 36 from both sides

Subtract  $x^2$  and 36 from both sides

Subtract  $x^2$  and 36 from both sides

Question 3:

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



Solution 3:

By Tangent Congruence Theorem,  $AC = BC$ .

$$2x+4 = 3x$$

$$x^2 - 2 = x$$

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

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

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

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

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

$$BC = 3x$$

$$BC = 3(2)$$

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

Subtract both sides by 4

is a quadratic equation

Subtract  $x^2$  from both sides

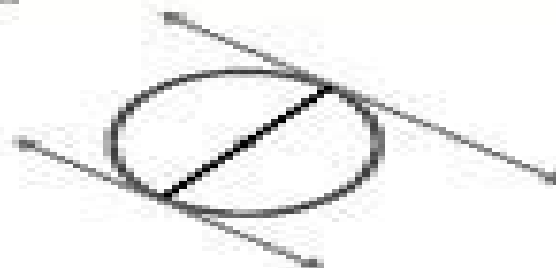
Factor the equation

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 12 Lines That Intersect Circles Answers

**Thomas Griffiths**



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