

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,  $CB = (15+x)$ .

$$x^2 + 15^2 = (15+x)^2$$

$$x^2 + 15^2 = 225 + 30x + x^2$$

$$15^2 = 225 + 30x + x^2 - x^2$$

$$225 = 225 + 30x$$

$$0 = 30x$$

$$x = 0$$

Circle's area is 225

Subtract 225 on both sides

Subtract  $x^2$  from both sides

Divide by 30 on both sides

Question 3:

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



Solution 3:

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

$$2x+4 = 3x$$

$$x^2 - 2 = x$$

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

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

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

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

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

$$BC = 3x$$

$$BC = 3(2)$$

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

Circle's area is 225

Subtract 225 on both sides

Subtract  $x^2$  from both sides

Divide by 30 on both sides

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 1 Lines That Intersect Circles Worksheet Answers

**N Colangelo**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

## **Lesson 1 Lines That Intersect Circles Worksheet Answers:**

## **Lesson 1lines That Intersect Circles Worksheet Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Lesson 1lines That Intersect Circles Worksheet Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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