

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.

$$AC^2 + AB^2 = CB^2$$

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*

$$3x^2 + x^2 = 25x = x^2 + x^2 + 32x$$

$$32x = x^2 + x^2 + 32x$$

*Subtract  $32x$  on both sides*

$$2x^2 = 32x$$

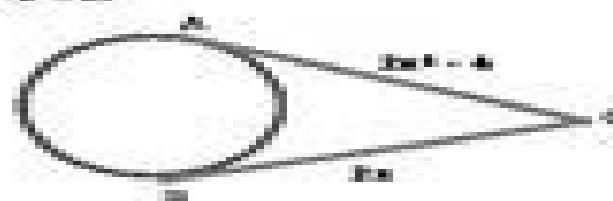
*Subtract  $x^2$  from both sides*

$$x = 16$$

*Divide by  $x$  on both sides*

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 2 = x$$

*Subtract 2 from both by 2*

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

*Factor both sides*

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

*Subtract 2 from 2 and 2 to 2*

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

*Set  $x + 1 = 0$*

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

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

$$BC = 3x$$

$$BC = 3(2)$$

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

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 Answer Sheet

**Arturo Cuomo**



## **Lesson 12 Lines That Intersect Circles Answer Sheet:**

## Whispering the Techniques of Language: An Psychological Journey through **Lesson 12 Lines That Intersect Circles Answer Sheet**

In a digitally-driven world where monitors reign great and quick interaction drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases usually move unheard. However, situated within the pages of **Lesson 12 Lines That Intersect Circles Answer Sheet** a charming literary prize pulsating with natural thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a talented wordsmith, that charming opus invites viewers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles cloth of every word. Within the psychological depths of the emotional review, we shall embark upon a heartfelt exploration of the book is primary themes, dissect its interesting writing style, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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