

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, $CB = CD + x$.

$$x^2 + 16^2 = (x + x)^2$$

$$x^2 + 16^2 = (2x)^2 \quad \text{Subst. what is known}$$

$$x^2 + 16^2 = 4x^2 \quad \text{Simplify: } (2x)^2 \text{ is } 4x^2$$

$$16^2 = 4x^2 - x^2 \quad \text{Subtract } x^2 \text{ on both sides}$$

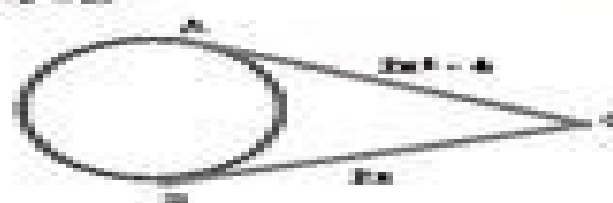
$$256 = 3x^2 \quad \text{Simplify: } 4x^2 - x^2 \text{ is } 3x^2$$

$$x = 12$$

Therefore, $x = 12$.

Question 3:

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



Solution 3:

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

$$2x + 5 = 2x$$

$$x^2 - 2 = x$$

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

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

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

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

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

$$BC = 2x$$

$$BC = 2(2)$$

$$BC = 4 \text{ units}$$

Subst. 2 into either Eq. 2

or Eq. 3

Subst. of 2 into 2 or 3

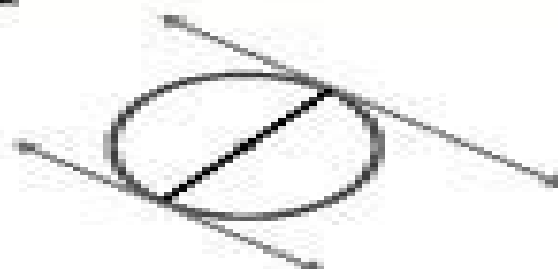
or 2 or 3

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 Answers

Harold R. Jacobs



Lesson 1 Lines That Intersect Circles Answers:

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