

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, $CB = CD + x$.

$$24^2 + x^2 = (CD + x)^2$$

$$24^2 + x^2 = CD^2 + 2CDx + x^2$$

Cancel what is common

$$576 + x^2 = 256 + x^2 + 32x$$

$$320 = x^2 + x^2 + 32x$$

Subtract 256 on both sides

$$320 = 32x$$

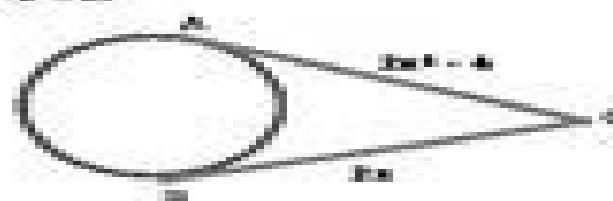
Subtract x^2 from both sides

$$x = 10$$

Divide by 32 on both sides

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

Subtract 4 from both sides by 4

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

is a quadratic equation

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

Subtract -4 from 2 sides of 4, 0, 4

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

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.



Lesson 12 1 Practiceb Lines That Intersect Circles

Answers

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Lesson 12 1 Practice Lines That Intersect Circles Answers:

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