

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, $CB = (2x) + x$.

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

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

Cancel what you can.

$$x^2 = x^2 + 25x = x^2 + 25x$$

$$25x = x^2 + x^2 + 25x$$

Subtract $25x$ on both sides.

$$25x = 2x^2$$

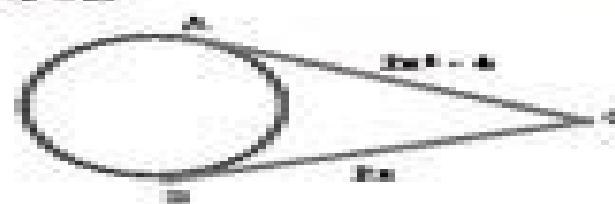
Subtract $2x^2$ on both sides.

$$x = 12.5$$

Divide by $2x$ 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 4 on both sides by 4.

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

Factor the sides.

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

Subtract 4 from 2 and 2 from 4.

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

Use FOIL.

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

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

$$BC = 2x$$

$$BC = 2(2)$$

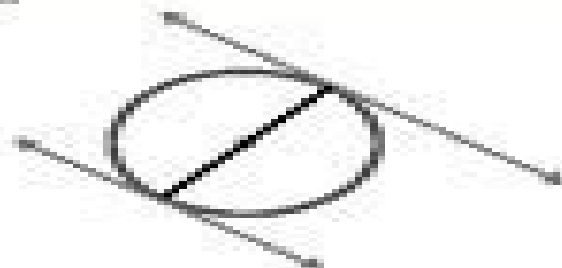
$$BC = 4 \text{ units}$$

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 1practice B Lines That Intersect Circles

LP Steffe



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