

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, $CB = CD + x$.

$$3^2 + 4^2 = (CD + x)^2$$

$$25 = x^2 + 2x + 4 \quad \text{[Since } CD = 3 \text{]} \quad \text{[Simplify and rearrange]}$$

$$21 = x^2 + 2x + 4 - 4 \quad \text{[Subtract 4 from both sides]}$$

$$21 = x^2 + 2x \quad \text{[Simplify to form quadratic equation]}$$

$$21 - 21 = x^2 + 2x - 21 \quad \text{[Subtract 21 from both sides]}$$

$$0 = x^2 + 2x - 21$$

[Since $CD = 3$]

[Subtract 4 from both sides]

[Simplify to form quadratic equation]

[Subtract 21 from both sides]

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

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

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

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

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

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

$$BC = 2x$$

$$BC = 2(2)$$

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

[Simplify and rearrange by 2]

[x is length value]

[Subtract 3 from 2 sides]

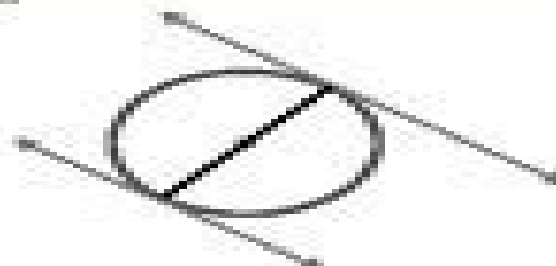
[Factorize]

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.



Lines That Intersect Circles 12 1 Answers

Sasha Hu



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