

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

$$3x^2 + x^2 = 2x^2 + 4x^2 + x^2 + 2x^2$$

$$3x^2 + x^2 = 2x^2 + 4x^2 + x^2 + 2x^2$$

Subtract $2x^2$ on both sides

$$2x^2 = 3x^2$$

Subtract x^2 on both sides

$$x = 3x$$

Divide x on both sides

Question 3:

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



Solution 3:

By Tangent Congruence Theorem,
 $AC = BC$

$$2x + 3 = 3x$$

$$x + 3 = x$$

Subtract 3 on both sides by 3

$$x + 3 - 3 = x - 3$$

is both sides

$$x + 3 - 3 = 0$$

Subtract 3 from 3 is 0

$$(x + 3) - 3 = 0$$

is 0

$$x + 3 - 3 = 0$$

Since x is a length, it cannot be negative. Therefore, $x = 3$.

$$BC = 3x$$

$$BC = 3(3)$$

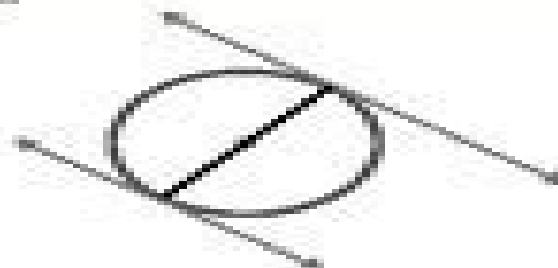
$$BC = 9 \text{ units}$$

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.



Lines That Intersect Circles 12 1 Answers

J Ma



Lines That Intersect Circles 12 1 Answers:

Decoding **Lines That Intersect Circles 12 1 Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Lines That Intersect Circles 12 1 Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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