

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, $CB = (x) + x$.

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

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

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

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

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

$$x = 10$$

Circle's area is 100π

Quadrant 2π is 2π units

Quadrant 2π is 2π units

Circle's area is 100π

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 = 2 = x$$

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

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

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

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

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

$$BC = 3x$$

$$BC = 3(2)$$

$$BC = 6 \text{ units}$$

Circle's area is 100π

Quadrant 2π is 2π units

Quadrant 2π is 2π units

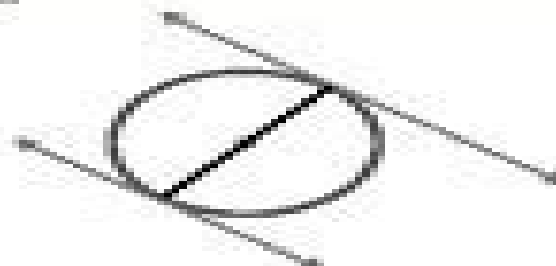
Circle's area is 100π

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.



12 Exercises Lines That Intersect Circles Answers

M Mosston



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