

Question 1:

Draw the common tangents of the circles and tell how many tangents there are.



Solution 1:

4 tangents

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,  $CB = (10+x)$ .

$$x^2 + x^2 = (10+x)^2$$

$$2x^2 + x^2 = 10^2 + 20x + x^2$$

Cancel what you can

$$3x^2 + x^2 = 100 + 20x + x^2$$

$$3x^2 + x^2 = 100 + 20x + x^2$$

Subtract  $100$  on both sides

$$2x^2 = 20x$$

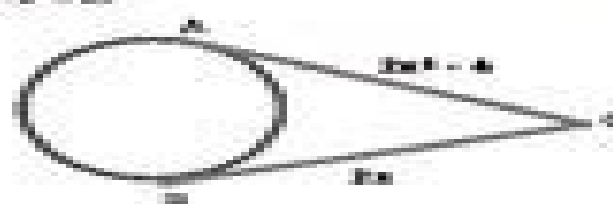
Subtract  $20x$  on both sides

$$x = 10$$

Divide by  $2x$  on both sides

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

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

Divide both sides by  $x$

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

$x = 0$  is not valid

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

Factorize it to  $(x-2)(x+1) = 0$

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

$x = 2$  or  $x = -1$

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

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

$$BC = 2x$$

$$BC = 2(2)$$

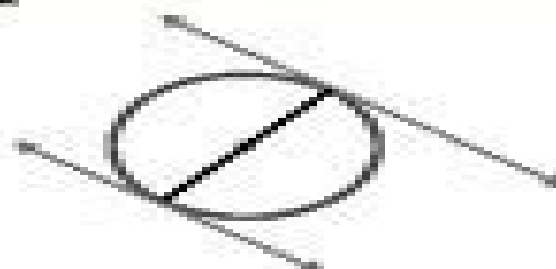
$$BC = 4 \text{ units}$$

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 1 Lines That Intersect Circles Worksheet Answers

**Y Pai**



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