

Question 1:

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



Question 2:

If \overline{AB} is tangent to the circle, find x .



Solution 2:

Since line \overline{AB} is tangent to the circle, it forms a perpendicular to the radius \overline{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, $CB = (x) + x$.

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

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

Cancel what you can.

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

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

Subtract x^2 on both sides.

$$0 = x^2 + x^2$$

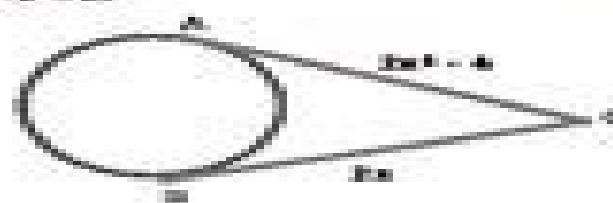
Subtract x^2 on both sides.

$$x = 0$$

Divide by 2 on both sides.

Question 3:

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



Solution 3:

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

$$2x + 4 = 3x$$

$$x^2 - 3 = x$$

Subtract 4 from both sides by 4.

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

Use quadratic formula.

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

Subtract 4 from 3 by 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.



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Puja Mehta

A decorative red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the author's name.

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, English Mechanic and World of Science ,1914 Practical Lessons in Carpentry and Joinery .. George Ellis, 1925 English Mechanic and Mirror of Science and Art ,1913 Scientific American ,1876 World Studies: Eastern Hemisphere Heidi Hayes Jacobs, Michal L. LeVasseur, 2004-08 Foundations of geography World of geography Earth s physical geography Earth s human geography Cultures of the world Interacting with our environment Europe and Russia Europe and Russia physical geography Europe and Russia shaped by history Cultures of Europe and Russia Western Europe Eastern Europe and Russia Africa Africa physical geography Africa shaped by tis history Cultures of Africa North Africa West Africa Exploring East Africa Central and Southern Africa Asia and the Pacific East Asia physical geography South Southwest and Central Asia physical geography Southeast Asia and the Pacific region physical geography East Asia cultures and history South and Southeast Asia cultures and history Southeast Asia and the Pacific region cultures and history East Asia South Southwest and Central Asia Southeast Asia and the Pacific region Glossary

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