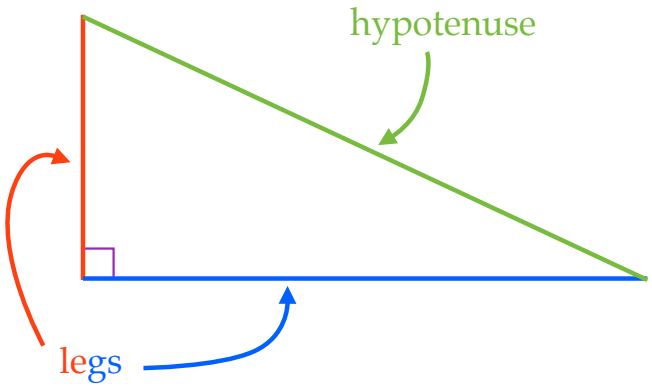
The Cosine Ratio of Right Triangles

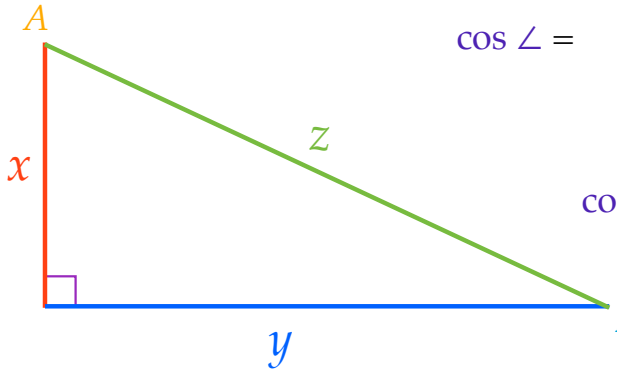
Name _____

Date _____ Period _____

In a right triangle, there are different names to refer to different sides of the triangle.



The Cosine Ratio of an angle is the ratio of the length of the adjacent leg to the length of the hypotenuse.



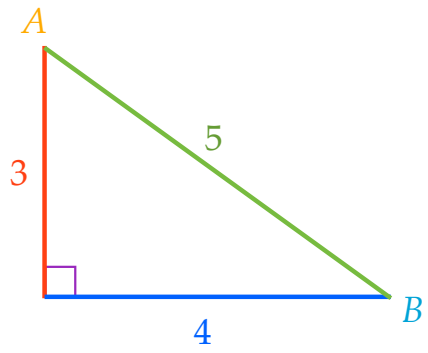
$\cos \angle =$

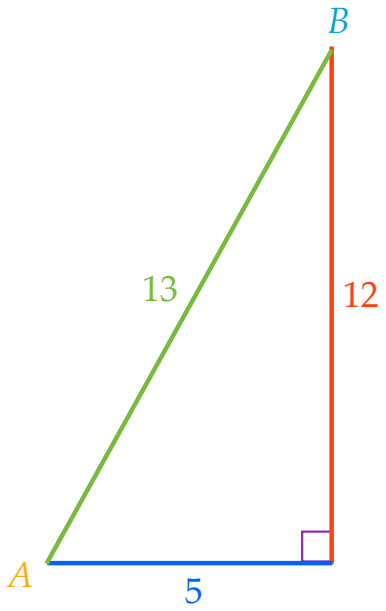
$\cos A =$

$\cos B =$

Find the cosine ratio of $\angle A$ and $\angle B$.

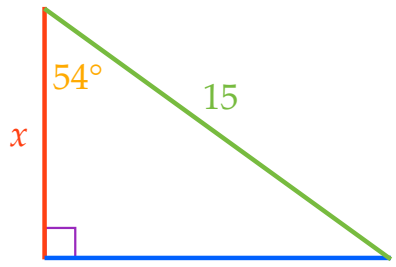
$$\cos \angle = \frac{\text{adjacent}}{\text{hypotenuse}}$$

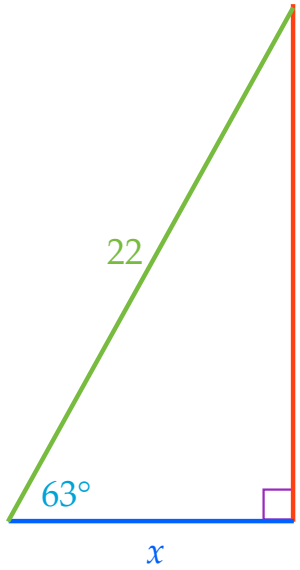




Use the cosine ratio to solve for the value of x.

$$\cos \angle = \frac{\text{adjacent}}{\text{hypotenuse}}$$





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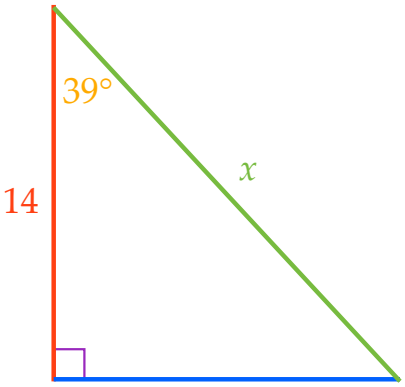

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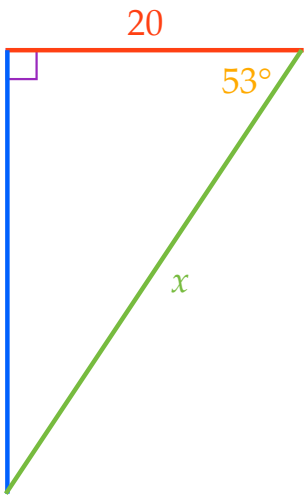
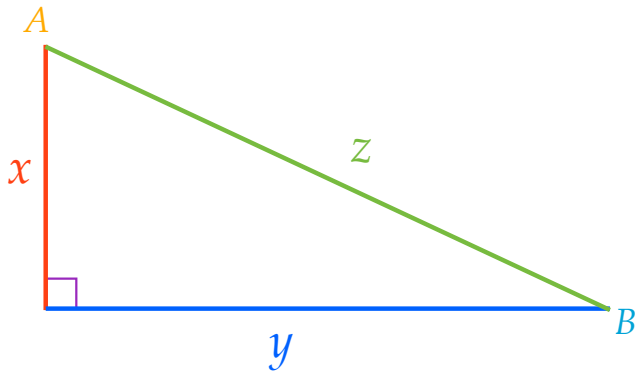


The Cosine Ratio of an angle is the ratio of the length of the adjacent leg to the length of the hypotenuse.



$$\cos \angle = \frac{\text{length of adjacent leg}}{\text{length of hypotenuse}} = \frac{\text{adjacent}}{\text{hypotenuse}}$$