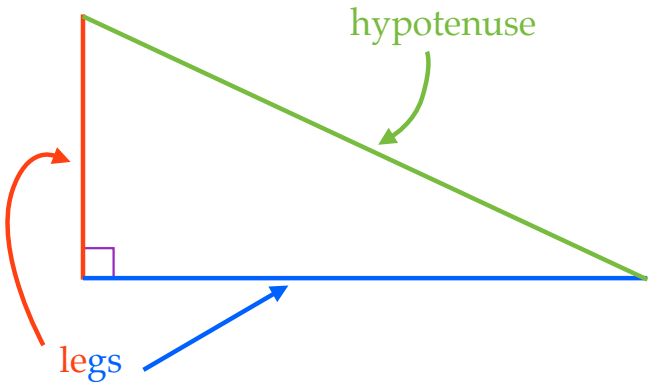
The Tangent Ratio of Right Triangles

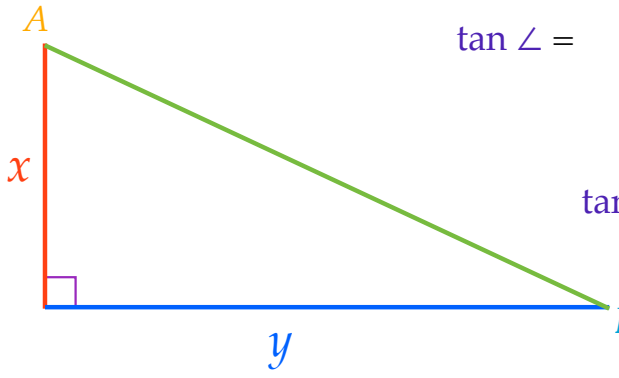
Name _____

Date _____ Period _____

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



The tangent ratio of an angle is the ratio of the length of the opposite leg to the length of the adjacent leg.



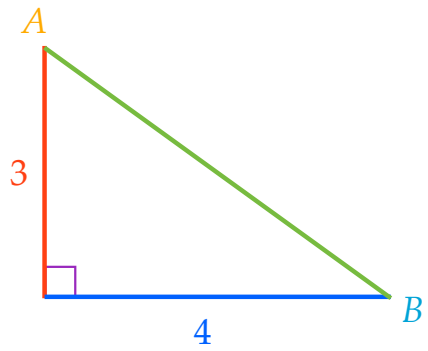
tan ∠ =

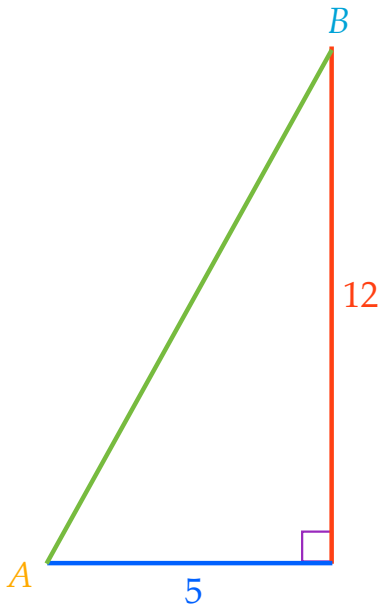
tan A =

tan B =

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

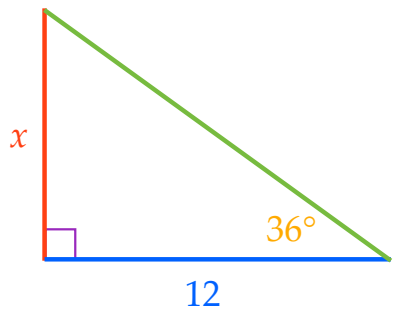
$$\tan \angle = \frac{\text{opposite}}{\text{adjacent}}$$

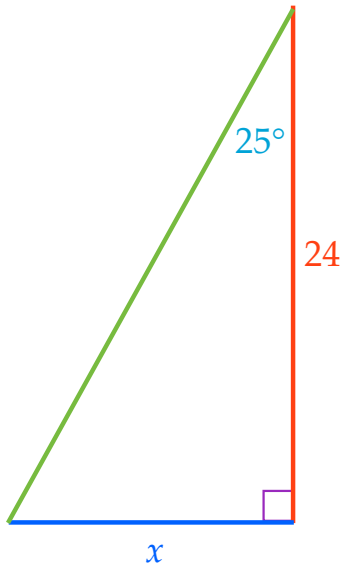




Use the tangent ratio to solve for the value of x.

$$\tan \angle = \frac{\text{opposite}}{\text{adjacent}}$$





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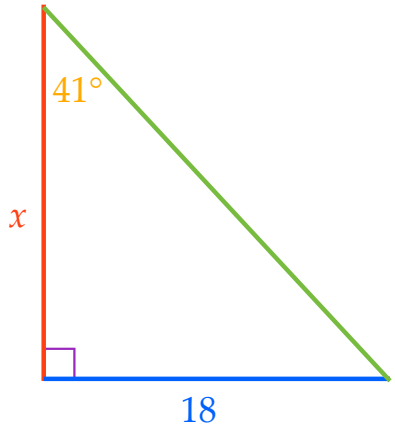

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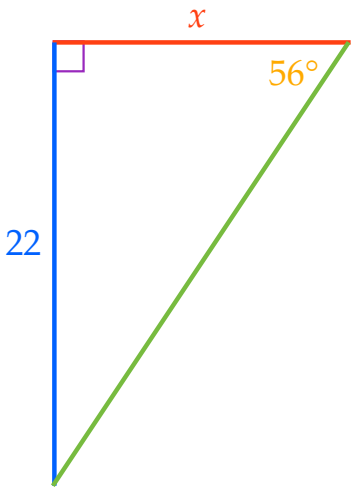
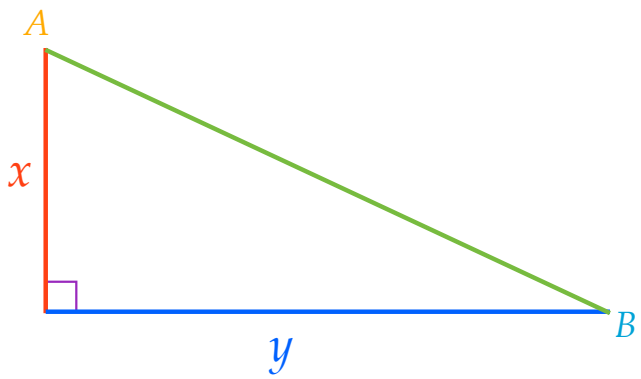


The tangent ratio of an angle is the ratio of the length of the opposite leg to the length of the adjacent leg.



$$\tan \angle = \frac{\text{length of opposite leg}}{\text{length of adjacent leg}} = \frac{\text{opposite}}{\text{adjacent}}$$