

12-1 Study Guide and Intervention

Trigonometric Functions in Right Triangles

Trigonometric Functions for Acute Angles Trigonometry is the study of relationships among the angles and sides of a right triangle. A trigonometric function has a rule given by a **trigonometric ratio**, which is a ratio that compares the side lengths of a right triangle.

Trigonometric Functions in Right Triangles



If θ is the measure of an acute angle of a right triangle, *opp* is the measure of the leg opposite θ , *adj* is the measure of the leg adjacent to θ , and *hyp* is the measure of the hypotenuse, then the following are true.

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\csc \theta = \frac{\text{hyp}}{\text{opp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\sec \theta = \frac{\text{hyp}}{\text{adj}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\cot \theta = \frac{\text{adj}}{\text{opp}}$$

Example: In a right triangle, $\angle B$ is acute and $\cos B = \frac{3}{7}$. Find the value of $\tan B$.

Step 1 Draw a right triangle and label one acute angle B . Label the adjacent side 3 and the hypotenuse 7.

Step 2 Use the Pythagorean Theorem to find b .

$$a^2 + b^2 = c^2$$

Pythagorean Theorem

$$3^2 + b^2 = 7^2$$

$a = 3$ and $c = 7$

$$9 + b^2 = 49$$

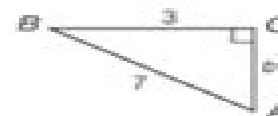
Simplify.

$$b^2 = 40$$

Subtract 9 from each side.

$$b = \sqrt{40} \text{ or } 2\sqrt{10}$$

Take the positive square root of each side.



Step 3 Find $\tan B$.

$$\tan B = \frac{\text{opp}}{\text{adj}}$$

Tangent function

$$\tan B = \frac{2\sqrt{10}}{3}$$

Replace *opp* with $2\sqrt{10}$ and *adj* with 3.

Exercises

Find the values of the six trigonometric functions for angle θ .

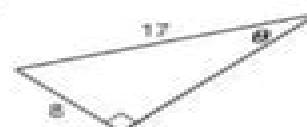
1.



2.



3.



In a right triangle, $\angle A$ and $\angle B$ are acute.

4. If $\tan A = \frac{7}{12}$, what is $\cos A$?

5. If $\cos A = \frac{1}{2}$, what is $\tan A$?

6. If $\sin B = \frac{3}{5}$, what is $\tan B$?

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Mike Sharples

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