

# 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  $\theta$  is the measure of an acute angle of a right triangle, *opp* is the measure of the leg opposite  $\theta$ , *adj* is the measure of the leg adjacent to  $\theta$ , 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  $\theta$ .

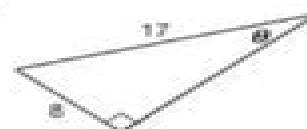
1.



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  $\tan B$ ?

# Triangle Trigonometry Study Guide

**James Tanton**

## Triangle Trigonometry Study Guide:

**Trigonometry** James Tanton,2015-08-10 This guide covers the story of trigonometry It is a swift overview but it is complete in the context of the content discussed in beginning and advanced high school courses The purpose of these notes is to supplement and put into perspective the material of any course on the subject you may have taken or are currently taking These notes will be tough going for those encountering trigonometry for the very first time [Trigonometry \(Speedy Study Guides\)](#) Speedy Publishing,2014-06-18 Trigonometry is the branch of science that studies triangles paying particularly close attention to the measurements between the triangle's points and the angles of the triangle's three corners

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