

# 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,  $\text{opp}$  is the measure of the leg opposite  $\theta$ ,  $\text{adj}$  is the measure of the leg adjacent to  $\theta$ , and  $\text{hyp}$  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  $c = 7$

$$9 + b^2 = 49$$

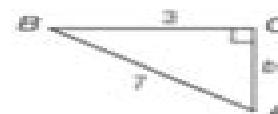
Simplify.

$$b^2 = 40$$

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  $\text{opp}$  with  $2\sqrt{10}$  and  $\text{adj}$  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  $\tan B$ ?

# Study Guide Trigonometric Ratio

**Jonathan L Reese**

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