

of the angle  $\theta$  (Greek theta), abbreviated as  $\sin \theta$ ,  $\cos \theta$ , and  $\tan \theta$ , respectively. These functions are defined below in terms of the symbols given along with the right triangle in Figure 1.5.

● DEFINITION OF  $\sin \theta$ ,  $\cos \theta$ , AND  $\tan \theta$

$$\sin \theta = \frac{h_o}{h} \quad (1.1)$$

$$\cos \theta = \frac{h_a}{h} \quad (1.2)$$

$$\tan \theta = \frac{h_o}{h_a} \quad (1.3)$$

$h$  = length of the **hypotenuse** of a right triangle

$h_o$  = length of the side **opposite** the angle  $\theta$

$h_a$  = length of the side **adjacent** to the angle  $\theta$

The sine, cosine, and tangent of an angle are numbers without units, because each is the ratio of the lengths of two sides of a right triangle. Example 3 illustrates a typical application of Equation 1.3.

**EXAMPLE 3** Using Trigonometric Functions

On a sunny day, a tall building casts a shadow that is 67.2 m long. The angle between the sun's rays and the ground is  $\theta = 50.0^\circ$ , as Figure 1.6 shows. Determine the height of the building.

**Reasoning** We want to find the height of the building. Therefore, we begin with the colored right triangle in Figure 1.6 and identify the height as the length  $h_o$  of the side opposite the angle  $\theta$ . The length of the shadow is the length  $h_a$  of the side that is adjacent to the angle  $\theta$ . The ratio of the length of the opposite side to the length of the adjacent side is the tangent of the angle  $\theta$ , which can be used to find the height of the building.

**Solution** We use the tangent function in the following way, with  $\theta = 50.0^\circ$  and  $h_a = 67.2$  m:

$$\tan \theta = \frac{h_o}{h_a} \quad (1.3)$$

$$h_o = h_a \tan \theta = (67.2 \text{ m})(\tan 50.0^\circ) = (67.2 \text{ m})(1.19) = \boxed{80.0 \text{ m}}$$

The value of  $\tan 50.0^\circ$  is found by using a calculator.

The sine, cosine, or tangent may be used in calculations such as that in Example 3, depending on which side of the triangle has a known value and which side is asked for. However, *the choice of which side of the triangle to label  $h_o$  (opposite) and which to label  $h_a$  (adjacent) can be made only after the angle  $\theta$  is identified.*

Often the values for two sides of the right triangle in Figure 1.5 are available, and the value of the angle  $\theta$  is unknown. The concept of *inverse trigonometric functions* plays an important role in such situations. Equations 1.4–1.6 give the



Figure 1.5 A right triangle.



Figure 1.6 From a value for the angle  $\theta$  and the length  $h_a$  of the shadow, the height  $h_o$  of the building can be found using trigonometry.

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