of the angle θ (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 0, COS 0, AND TAN 0

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

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

$$tan \theta = \frac{k_o}{k_s}$$
(1.3)

h = length of the hypotenuse of a right triangle

 $h_a = \text{length of the side opposite the angle } \theta$

 $h_n = \text{length of the side adjacent to the angle } \theta$

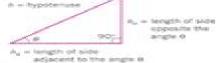


Figure 1.5 A right triangle.

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_c of the side opposite the angle θ . The length of the shadow is the length h_c of the side that is adjacent to the angle θ . The ratio of the length of the opposite side to the length of the adjacent side is the tangent of the angle θ , 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 $h_{s} = 67.2 \text{ m}$:

$$tan \theta = \frac{h_0}{h}$$
(1.3)

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

The value of tan 50.0° 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_a (opposite) and which to label h_a (adjacent) can be made only after the angle 0 is identified.

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

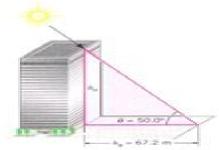


Figure 1.6. From a value for the angle θ and the length h_a of the shadow, the height h_a of the building can be found using trigonometry.

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