4 Trigonometry and Complex Numbers

Trigonometry developed from the study of triangles, particularly right triangles, and the relations between the lengths of their sides and the sizes of their angles. The trigonometric functions that measure the relationships between the sides of similar triangles have far-reaching applications that extend far beyond their use in the study of triangles. Complex numbers were developed, in part, because they complete, in a useful and elegant fashion, the study of the solutions of polynomial equations. Complex numbers are useful not only in mathematics, but in the other sciences as well.

Trigonometry

Most of the trigonometric computations in this chapter use six basic trigonometric functions. The two fundamental trigonometric functions, sine and cosine, can be defined in terms of the unit circle—the set of points in the Euclidean plane of distance one from the origin. A point on this circle has coordinates $(\cos t, \sin t)$, where t is a measure (in radians) of the angle at the origin between the positive x-axis and the ray from the origin through the point measured in the counterclockwise direction. The other four basic trigonometric functions can be defined in terms of these two—namely,

$$\tan x = \frac{\sin x}{\cos x} \qquad \sec x = \frac{1}{\cos x}$$
$$\cot x = \frac{\cos x}{\sin x} \qquad \csc x = \frac{1}{\sin x}$$

For $0 < t < \frac{\pi}{2}$, these functions can be found as a ratio of certain sides of a right triangle that has one angle of radian measure t.

Trigonometric Functions

The symbols used for the six basic trigonometric functions—sin, cos, tan, cot, sec, csc—are abbreviations for the words cosine, sine, tangent, cotangent, secant, and cosecant, respectively. You can enter these trigonometric functions and many other functions either from the keyboard in mathematics mode or from the dialog box that drops down when you click or choose **Insert + Math Name**. When you enter one of these functions from the keyboard in mathematics mode, the function name automatically turns gray when you type the final letter of the name.

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