Note 11A • Square Windows

In a square window, the horizontal and vertical scales in the screen are equal in size. A square window is often preferred because it displays no visual distortion. (See **Note 7D** to learn about friendly square windows.) To create a window that is square, but not necessarily friendly, begin by entering a window range that shows what you want to see of the graph. Here the square with vertices $(-6, -6)$, $(6, -6)$, $(6, 6)$, and $(-6, 6)$ is shown. Notice that it does not look like a square—it is distorted. You can see that the scales on the horizontal and vertical axes are not the same size.
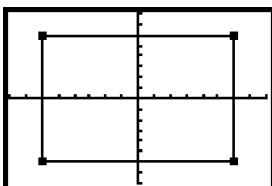
Now press ZOOM and select **5:ZSquare**. The window is adjusted so that it is square. Notice that the square is no longer distorted.
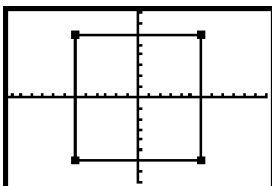
Note 11B • Trigonometric Functions

The trigonometric functions in this calculator work with angles that are measured either in degrees or in units called radians. In this course, all angles will be measured in degrees. Press MODE and check that your calculator is set to **Degree** mode.

The three trigonometric functions—sine, cosine, and tangent—are in the **TRIG** menu. Press 2nd [TRIG] and select the trigonometric function you want: **1:sin(**, **3:cos(**, or **5:tan(**. Enter the angle measure, close the parentheses, and press ENTER. The output is the trigonometric ratio expressed as a decimal number.
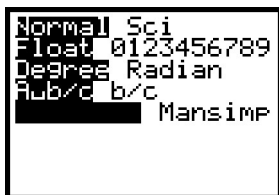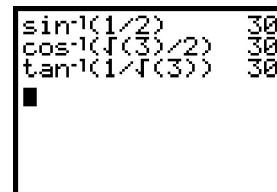
Note 11C • Inverse Trigonometric Functions

Press MODE and check that your calculator is set to **Degree** mode.

To convert a trigonometric ratio back to an angle measure, use an inverse
trigonometric function. The inverse trigonometric functions are found
in the TRIG menu. Press 2nd [TRIG] and select the inverse function you want:
2:sin⁻¹(, 4:cos⁻¹(, or 6:tan⁻¹(. Enter the ratio, close the parentheses, and press ENTER.
The output is an angle measured in degrees.
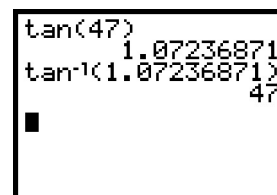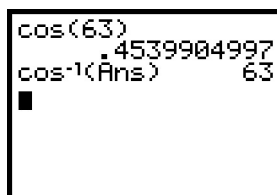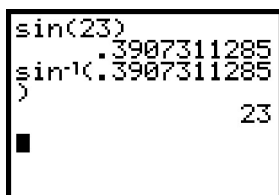
When using an inverse trigonometric function, you can enter the ratio either
as a decimal number or as a fraction.

Often, when you use an inverse trigonometric function, the degree measure of
the output angle is not a whole number.