Create a Table of Values for an Equation on a TI-89

To create a table of values for an equation we first solve the equation for y and enter it into the y= screen. Then we need to set up the table's format and then view the table.

Let's create a table of values for

$$-3x - 2y = 6$$

Solve the equation for y

$$-2y = 3x + 6$$

$$y = \frac{-3}{2}x - 3$$

Before you begin on the calculator, clear all previously stored functions.

Diamond Y=
F1
8: Clear Functions
Enter

If any Plots have been stored, unselect them by **Highlighting** and then **F4**

Enter the equation.

Diamond Y=

y1= $\dfrac{-3}{2}x - 3$

Set up the Table

Diamond TblSet (If the cursor is blinking on **Ask**, right arrow and select **Auto**)

tblStart: **-5** (You decide what beginning value you want your chart to begin with)

Delta tbl: **1** (Again you decide what value to use. This will determine if the table goes by increments of 1, 2, etc.)

Graph - table: **Off** (**On** includes every value of x that is graphed)

Independent: **Auto** (Creates the table based on the start value and increment you have specified. **Ask** waits for you to input a value for x and then determines the corresponding y value.

Enter

View the Table

Diamond Table

To view the values for more than one equation, enter additional equations in the Y= screen. Each equation that is checked will be evaluated in the table for the same values of x you selected in Table Setup.

To use the table feature to find the x and y intercepts, scroll through the table until you find the points where x = 0 and y = 0.