

## **Create a Table of Values for an Equation on a TI-86**

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.

**Graph**  
**F1: Y=**  
**F4: DelF**  
**Exit**

If any Plots have been stored, unselect them.

**Arrow up** and/or over to highlight the Plot  
**F5: Select**  
**Exit**

**Enter the equation.**

**Graph**  
**F1: Y=**  
 $y1 = \frac{-3}{2}x - 3$

**Set up the Table**

**Table**  
**F2: TblSt**

tblStart:           **-5** (You decide what beginning value you want your table 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.)

Independent: **Auto** (**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.

### View the Table

#### **F1: 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  $y = 0$ .**