

Create a Table of Values for an Equation on a TI-83+

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.

Y=

Highlight each function and press **Clear**

If any Plots have been turned on, turn them off.

2nd StatPlot:

highlight the Plot

Enter

Arrow to Off

Enter

Enter the equation.

Y=

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

Set up the Table

2nd TblSet

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

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

Indpnt: **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.

Depend **Auto** (**Auto** generates the corresponding y values for the displayed x values. **Ask** displays the y values only when selected.)

View the Table

2nd 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 $y = 0$.