# Table Function Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## **On the TI Graphing Calculator**

You can use your graphing calculator to not only graph equations of lines, but also to generate a table of data.

1. Make sure that your calculator has the Plots Off, Y= functions cleared, the MODE and FORMAT are set at “stage left”, and the lists are cleared.
2. Press the *Y=* button. With your cursor in the Y1 line, type 2 +3 then *Enter.*  You now have the equation y = 2x + 3 entered into the calculator.
3. Press the *ZOOM* key. Choose option 6 for *ZStandard*. This gives you a coordinate plane with –10 to 10 as its x and y values.
4. Press the *2nd* button, then *TABLE (shift of GRAPH*) to see a table of values for your equation.
5. Draw the table with 6 values for x and y below.

|  |  |
| --- | --- |
| **x** | **y** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Press the *GRAPH* button to see the line again and sketch what you see on the calculator on the coordinate plane at the right.
2. Repeat the process with the equation 4x + y = -5.

|  |  |
| --- | --- |
| **x** | **y** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

***Solve  if the domain is (-6, -3, 0, 3, 6, 9).***

1. Type the equation y=(2x – 6)/3 in *Y1*. Press *2nd* then *TBLSET (shift of WINDOW).* Change *TblStart =* to -6 and *ΔTBl =* to 3. Press *2nd* then *TABLE* to view the values for x and y. Record your table below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x** |  |  |  |  |  |  |
| **y** |  |  |  |  |  |  |

1. Why did 2x-6 have to be in parenthesis in number 8? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Why did we choose *ΔTBl =* to be equal to 3? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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