

Using the Calculator Table Function

1. Find the TABLE key on the calculator. Select the TABLE SET option. You have the option of tables being in AUTO mode or ASK mode. For what we want to do here, you should be in ASK mode.
2. We will illustrate using the table in solving a system of linear equations:

Solve the following system of linear equations:

$$2x + 4y = 2$$
$$3x - 2y = 11$$

- First, solve for y in each equation. You should get:
$$y = -\frac{1}{2}x + \frac{1}{2}$$
$$y = \frac{3}{2}x - \frac{11}{2}$$
- On your calculator, go to GRAPH, and enter in $Y1 = -\frac{1}{2}X + \frac{1}{2}$ and $Y2 = \frac{3}{2}X - \frac{11}{2}$ (remember to use parentheses generously when entering equations into the calculator).
- After entering in the equations, go to TABLE, and select TABLE. You should get a table that has one column, x, one column that says y1 and another that says y2 (this might be slightly different, depending on your calculator)

To find the values of Y1 and Y2 and a certain value of X, type in the value of X you want. You should get a table that looks like this

x	y1	y2
-2	1.5	-8.5
-1	1	-7
0	.5	-5.5
1	0	-4
2	-.5	-2.5
3	-1	-1

Since y1 and y2 have the same value when x is 3, the solution to the system of equations is (3, -1).