

Function Table Notes

Function

4/2/15

* Function and input will be given. You have to find the output

* Plug in each input into the function to find the output

$y = 2x - 3$	
Input (x)	Output (y)
-1	-5
0	-3
1	-1
$\frac{3}{2}$	0

$$2x - 3$$

$$2(-1) - 3$$

$$-2 - 3 = -5$$

$$2x - 3$$

$$2(0) - 3$$

$$0 - 3 = -3$$

$$2x - 3$$

$$2\left(\frac{3}{2}\right) - 3$$

$$3 - 3 = 0$$

$$\left\{ \begin{array}{l} \frac{2}{1} \cdot \frac{3}{2} = \frac{6}{2} \\ \frac{6}{2} = 3 \end{array} \right.$$

$f(x)$ is the same as y .
↳ just fancy

$f(x)$ → "F of x" → Function dependent on x

* Sometimes, we aren't given inputs. If you select the input, pick a positive number, zero, and a negative number

$f(x) = -x + 3$	
Input (x)	Output (f(x))
-3	6
0	3
19	-16

$$-x + 3$$

$$-(-3) + 3$$

$$3 + 3 = 6$$

$$-x + 3$$

$$-(0) + 3$$

$$0 + 3 = 3$$

$$-x + 3$$

$$-(19) + 3$$

$$-19 + 3 = -16$$

$$f(x) = 2x + 1$$

Input

Output

x	Work	$f(x)$
-4	$2(-4) + 1$ $-8 + 1 = -7$	-7
-1	$2(-1) + 1$ $-2 + 1 = -1$	-1
0	$2(0) + 1$ $0 + 1 = 1$	1
2	$2(2) + 1$ $4 + 1 = 5$	5

Input(x) Output(y)
 \downarrow \downarrow
 $(-4, -7)$
 $(-1, -1)$
 $(0, 1)$
 $(2, 5)$

* take your table to create ordered pairs

* You should always get a straight line

* Proper Notation: *

- ① Connect points in a straight line
- ② Put arrows at the end to show it continues

