

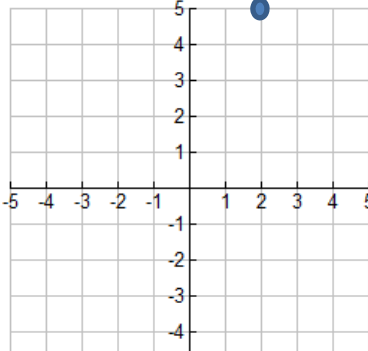
INTRODUCING FUNCTION NOTATION

X	Y
0	9
1	4
2	1
3	0
4	1

Rewrite the information from the table above.

As X and Y Values	As an Ordered Pair	As Function Notation
If $x = 0$, then $y = 9$	$(0, 9)$	$f(0) = 9$
If $x = 3$, then $y = 0$		
	$(4, 1)$	
		$f(1) = 4$
If $x = 2$, then $y = \underline{\hspace{2cm}}$		

- Information about function values may be obtained from a **formula, table, or a graph.** ★

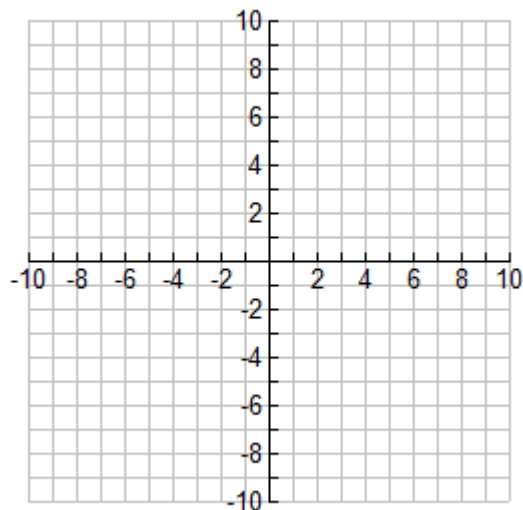
Algebraically	Numerically	Graphically								
$f(x) = 2x + 1$ $f(2) = 2(2) + 1$ $f(2) = 5$	<table><tr><th>X</th><th>Y = f(x)</th></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>3</td></tr><tr><td>2</td><td>5</td></tr></table>	X	Y = f(x)	0	1	1	3	2	5	
X	Y = f(x)									
0	1									
1	3									
2	5									

For each of the following: Plot the function and fill in the blanks. You may have to **expand the table** and/or **read information from the graph**. ★

1.

X	Y
-4	6
-2	5
0	4
2	3
4	2

Expand the table



Type: _____

Domain: _____

Range: _____

$f(0) =$ _____

$f(2) =$ _____

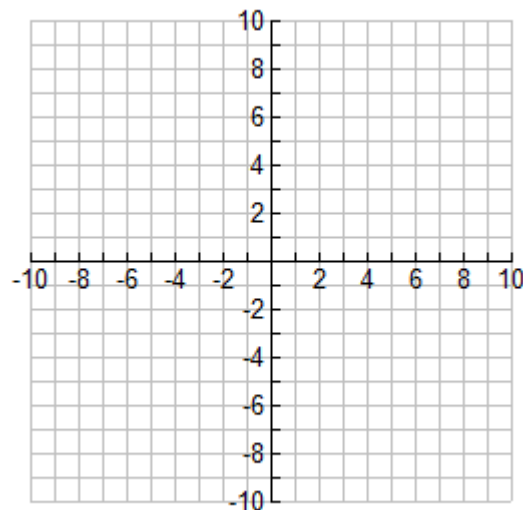
Are you finding X or Y values? _____

★ x-int: _____

y-int: _____

2.

X	Y
-2	-2
-1	-4
0	-6
1	-4
2	-2



Type: _____

Domain: _____

Range: _____

$f(-2) =$ _____

$f(1) =$ _____

Read the table and/or graph

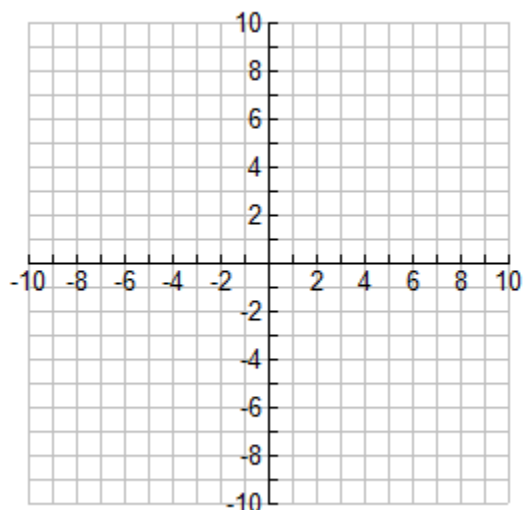
★ x-int(s): _____ and _____

Are your x-intercepts exact? _____

y-int: _____

3.

input	output
0	9
1	4
2	1
3	0
4	1



Type: _____

Domain: _____

Range: _____

$f(0) =$ _____ Are you finding X or Y values? _____

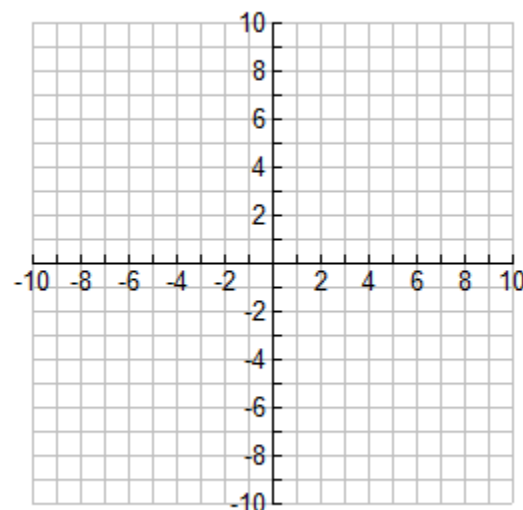
$f(\text{_____}) = 0$ Are you finding X or Y values? _____

x-int: _____

y-int: _____

4.

input	output
-5	0
-4	1
-1	2
4	3
11	4



Type: _____

Domain: _____

Range: _____

$f(\text{_____}) = 2$ Are you finding X or Y values? _____

$f(\text{_____}) = 0$ Are you finding X or Y values? _____

x-int: _____

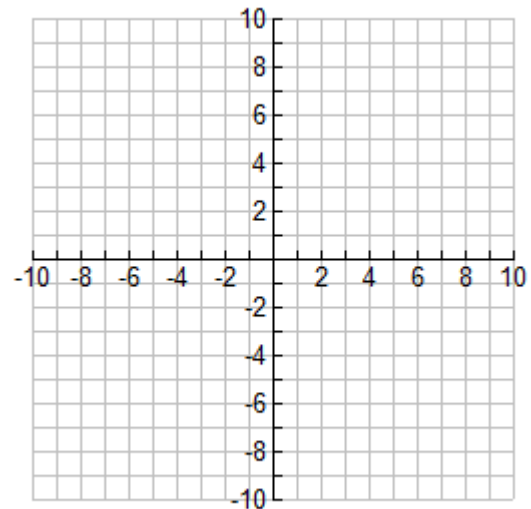
★ y-int: _____ Is your y-intercept exact? _____

Read the table and/or graph

5. Look for a pattern and extend the data table.

x	f(x)
-2	9
-1	8
0	7
1	6
2	5

Expand the table



Type: _____

Domain: _____

Range: _____

f(3) = _____ ★

f(_____) = 10 ★

f(1) = _____

f(_____) = 7

★ x-int: _____

y-int: _____

6.

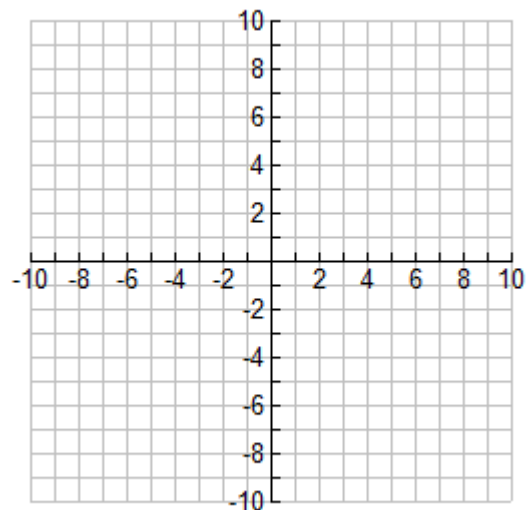
x	f(x)
-2	0
-1	3
0	4
1	3
2	0

Type: _____

f(-1) = _____ f(_____) = 4

x-int(s): _____ and _____

y-int: _____



Read the table and/or graph