

Graphing Curves from Function Tables

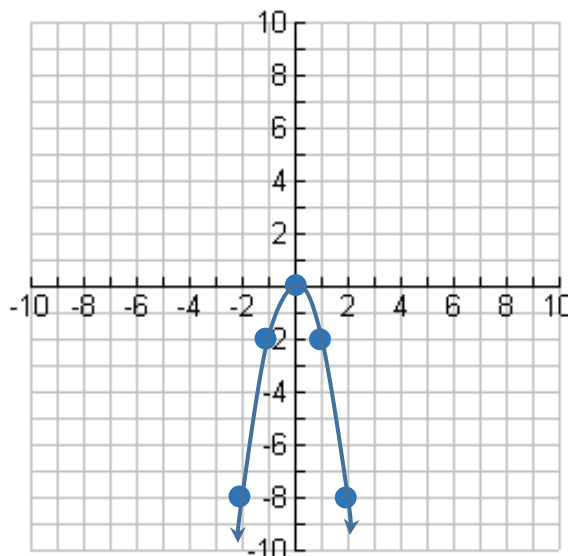
Name _____

- Objectives: A) Complete a Function Table
 B) Plot the points generated from a Function Table

EXAMPLE) Complete the Function Table

x	$y = -2x^2$	y	(x, y)
2	$y = -2(2)^2$	-8	(2, -8)
1	$y = -2(1)^2$	-2	(1, -2)
0	$y = -2(0)^2$	0	(0, 0)
-1	$y = -2(-1)^2$	-2	(-1, -2)
-2	$y = -2(-2)^2$	-8	(-2, -8)

Graph each point on the coordinate plane.



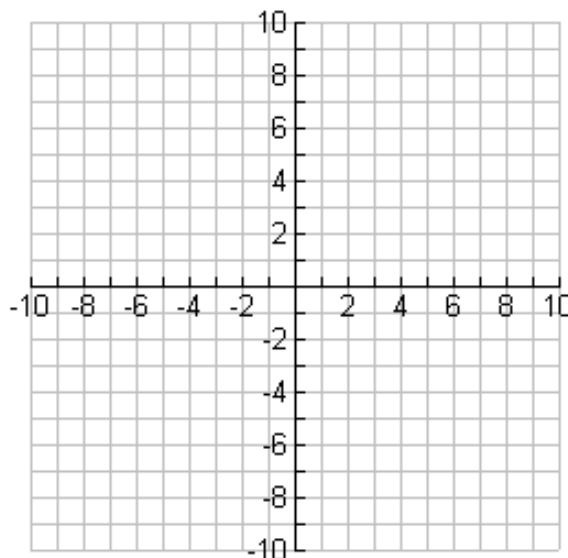
Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?

YOU TRY) Complete the Function Table

x	$y = -\frac{1}{3}x^2$	y	(x, y)
3	$y = -\frac{1}{3}(\quad)^2$		(,)
1	$y = -\frac{1}{3}(\quad)^2$		(,)
0	$y = -\frac{1}{3}(\quad)^2$		(,)
-1	$y = -\frac{1}{3}(\quad)^2$		(,)
-3	$y = -\frac{1}{3}(\quad)^2$		(,)

Graph each point on the coordinate plane.



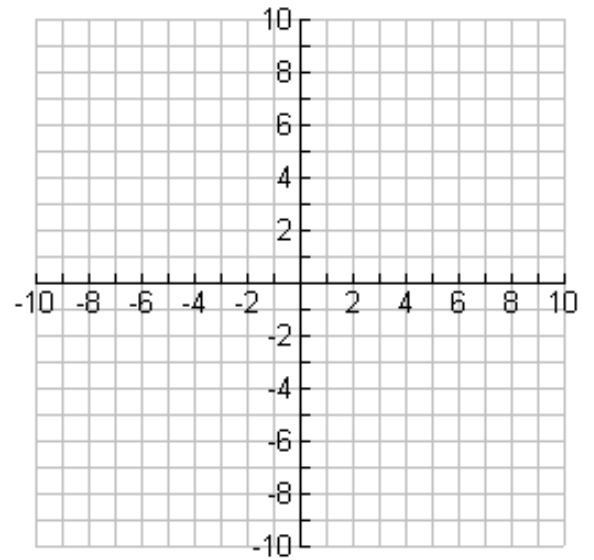
Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?

1) Complete the Function Table

x	$y = x^2 + 1$	y	(x, y)
3			(,)
1			(,)
0			(,)
- 1			(,)
- 3			(,)

Graph each point on the coordinate plane.



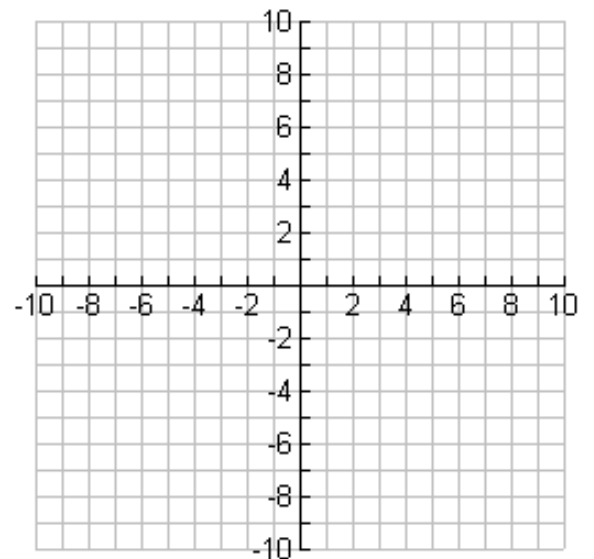
Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?

2) Complete the Function Table

x	$y = -x^2 - 3$	y	(x, y)
2			(,)
1			(,)
0			(,)
- 1			(,)
- 2			(,)

Graph each point on the coordinate plane.



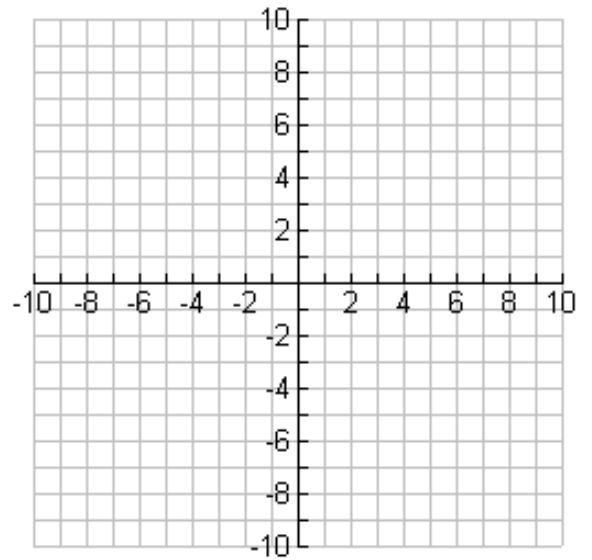
Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?

3) Complete the Function Table

x	$y = -2x^2 + 7$	y	(x, y)
2			(,)
1			(,)
0			(,)
- 1			(,)
- 2			(,)

Graph each point on the coordinate plane.



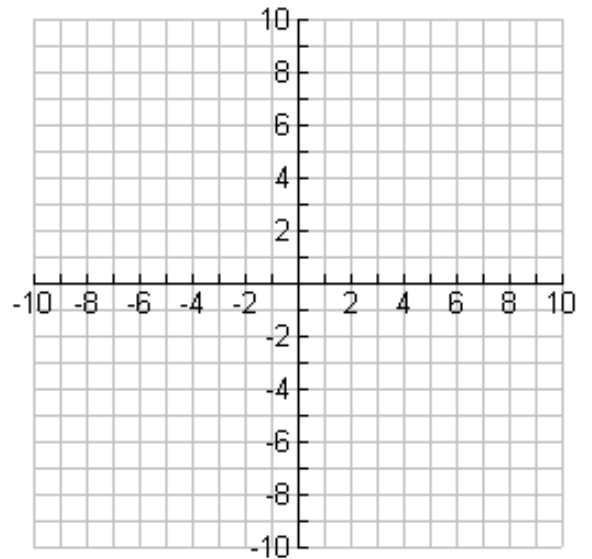
Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?

4) Complete the Function Table

x	$y = -\frac{1}{3}x^2 + 2$	y	(x, y)
3			(,)
1			(,)
0			(,)
- 1			(,)
- 3			(,)

Graph each point on the coordinate plane.



Do the points form a line? Should they?

Does the function appear to have a maximum or a minimum?