

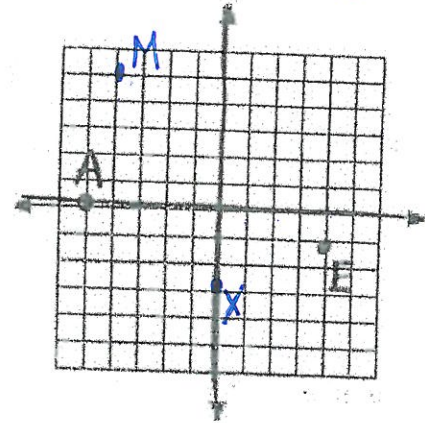
Module 4 (Graphing) Practice TEST

great idea taking Practice Test! good for you!

Key

- The point on the coordinate plane where the x and y axes intersect is termed the origin.
- Plot these two points on coordinate plane to right

- M (-4, 5)
- X (0, -3)



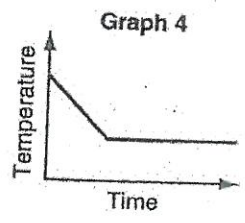
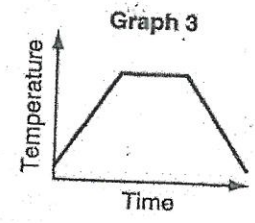
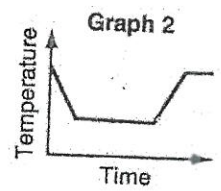
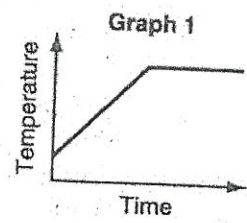
- Give the coordinates AND quadrants for these points:

- E (4, -1) 4th
- A (-5, 0) no quadrant

#4-5. Choose the graph that best represents the situation.

- On a hot day Kyle walks into and out of an air-conditioned building

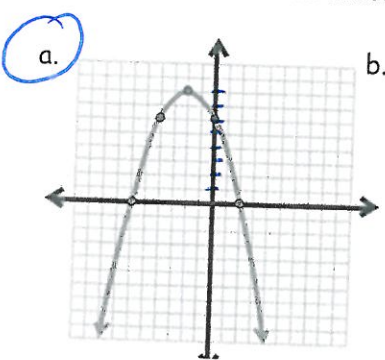
graph 2



- Kayli puts ice cubes in her soup to cool it before eating

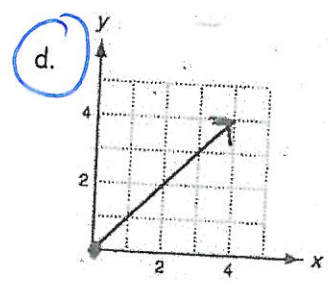
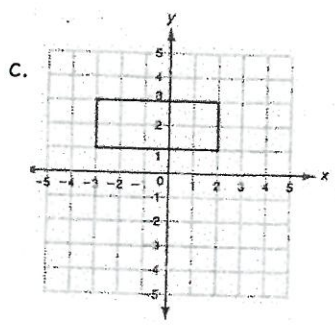
graph 4

- Circle the relations which are functions.



b.

x	-2	-3	-3	-4
y	1	2	3	4



- Give the domain and range for 6a (above)

Domain: \mathbb{R}
Range: $y \leq 9$

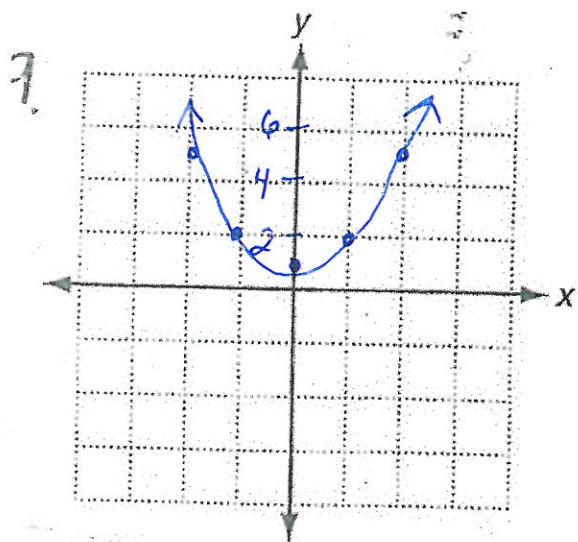
- Give the domain and range for 6c (above)

Domain: $-3 \leq x \leq 2$
 $1 \leq y \leq 3$

#9-10. Use a table of values to graph each function.

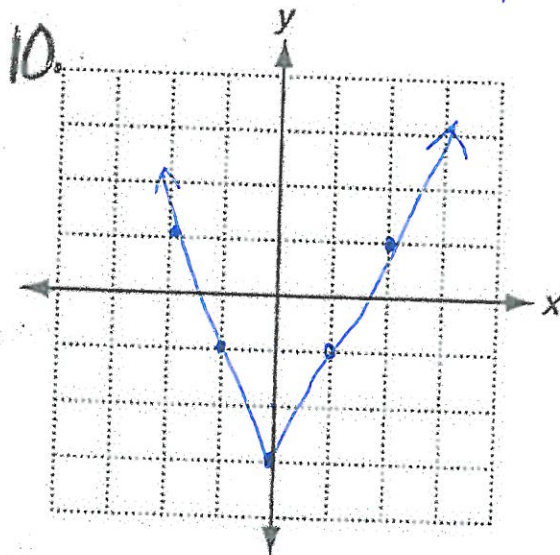
9. $y = x^2 + 1$

x	y
-2	5
-1	2
0	1
1	2
2	5



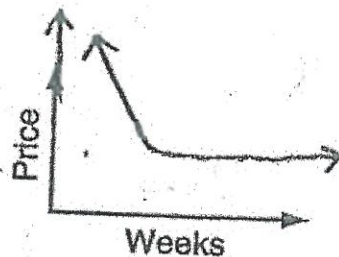
10. $f(x) = 2|x| - 3$

x	y
-2	1
-1	-1
0	-3
1	-1
2	1



11. Write a description to match the graph at right.

The price starts high, but as the weeks go by it decreases, then remains steady.



12. If $f(x) = 3x - 10$ and $g(x) = -4x^2$

a. Find $g(3)$ $-4(3)^2$ -36

b. Find $f(1)$ $3(1) - 10$ -7

c. If $f(x) = 11$, then solve for x .
 ↑ output, y-value, is 11.

$$11 = 3x - 10$$

$$21 = 3x$$

$$x = 7$$