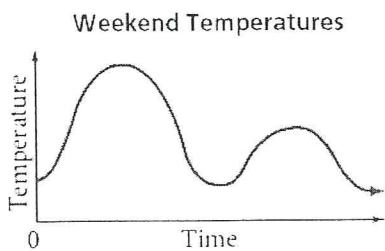


Algebra 1 Bellwork Monday, December 8, 2014

1. Describe what is happening in each section of the graph below.



2. Use these functions: $n(a) = -a^2 - 4$ $b(y) = 8 - 5y$

a) Find $b(-3)$

b) Find the range of $n(a)$ for the following domain: $\{-2, -1, 0, 1\}$

c) Find y if $b(y) = 30$

d) Find $6n(2) + 2b(3)$

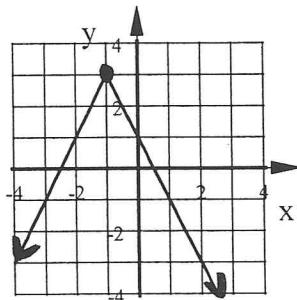
3. Is each of the following relations a function?

a) $(-5, 8), (-8, 5), (3, 2), (6, 5), (-3, 2)$

b)

X	6	9	1	6
Y	2	8	5	3

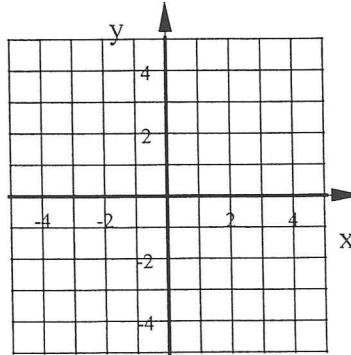
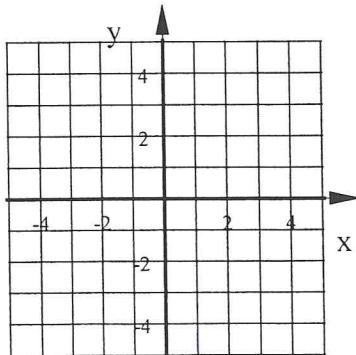
4. Find the domain and range of the graph below.



5. Graph each function using at least

a) $y = 3|x - 2| - 4$

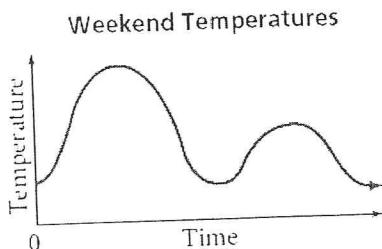
b) $y = -2(x + 3)^2 + 5$



Algebra 1 Bellwork Monday, December 8, 2014

ANSWERS

1. Describe what is happening in each section of the graph below.



2. Use these functions: $n(a) = -a^2 - 4$ $b(y) = 8 - 5y$

a) Find $b(-3) = 23$

b) Find the range of $n(a)$ for the following domain: $\{-2, -1, 0, 1\}$

Range $\{-8, -5, -4\}$

c) Find y if $b(y) = 30$

$$\begin{array}{r} 30 = 8 - 5y \\ -8 \quad -8 \\ \hline -5 \quad -5 \\ \hline y = -4.4 \end{array}$$

3. Is each of the following relations a function?

a) $(-5, 8), (-8, 5), (3, 2), (6, 5), (-3, 2)$

Yes

$$\begin{array}{l} n(-2) = -8 \\ n(-1) = -5 \\ n(0) = -4 \\ n(1) = -5 \end{array}$$

d) Find $6n(2) + 2b(3) = 62$

$$\begin{array}{l} 6(-8) + 2(-7) \\ -48 + -14 \\ \hline -62 \end{array}$$

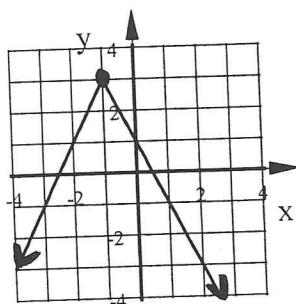
$$\begin{array}{l} n(2) = -(2)^2 - 4 = -8 \\ b(3) = 8 - 5(3) = -7 \end{array}$$

b)

X	6	9	1	6
Y	2	8	5	3

NO

4. Find the domain and range of the graph below.



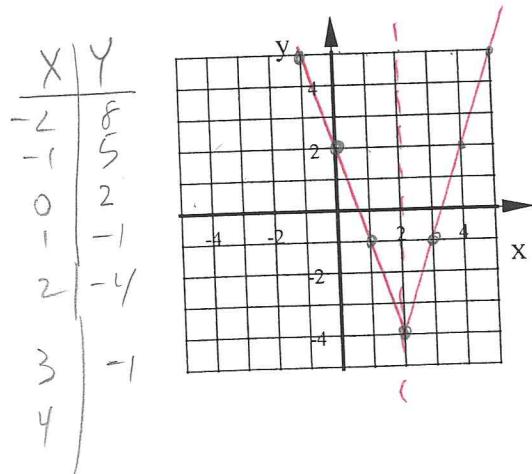
Domain: All Real #'s

Range: $y \leq 3$

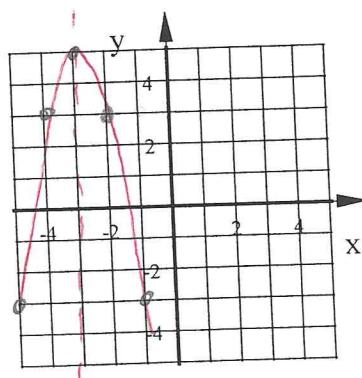
5. Graph each function using at least

a) $y = 3|x - 2| - 4$

✓



b) $y = -2(x + 3)^2 + 5$



A

X	Y
-2	3
-1	-3
0	-13
1	-27
2	-45
-3	5
-4	3