Bellwork

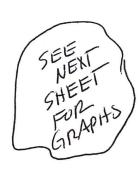
Alg 2A

Tuesday, January 31, 2017

Use the given equation to fill out the table, plot the points using a sheet of graph paper, and connect the points to form a parabola. Then answer the remaining questions about each parabola.

1.
$$y = x^2 - 4x + 3$$

X	Υ
-1	8
0	3
1	0
2	-1
3	0
4	3
5	8



Χ	Y
-2	-1
-1	2
0	3
1	2
2	-1

2. $-x^2 + 3$

- a. State the coordinates of the vertex. (2,-1)
- b. Draw the Line of Symmetry as a dashed line.
- c. Write the equation of the Line of Symmetry.

$$X = 2$$

d. State the x and y intercepts of this parabola.

e. State the Domain and Range of this parabola.

Domain: All Real #5 Range: 4 = -1

4.
$$y = -2x^2 + 12x - 19$$

of the vertex. (0_{13}) b. Draw the Line of

Symmetry as a dashed line.

a. State the coordinates

- c. Write the equation of the Line of Symmetry. X = 0
- of this parabola.

e. State the Domain and Range of this parabola.

Domain: All Rad # Reinge: 4 = 3

5.

3. $y = 2x^2 + 4x$

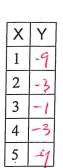
X	Y
-4	16
-3	6
-2	0
-1	-2
0	0
1	6
2	16

- a. State the coordinates (-1,-2) of the vertex.
- b. Draw the Line of Symmetry as a dashed line.
- c. Write the equation of the Line of Symmetry $\chi = -1$
- d. State the x & y intercepts d. State the x & y intercepts of this parabola.

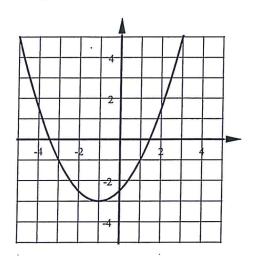
Y-MT=0 X-INT: -2,0

e. State the end behavior of this parabola.

as x -> -00, y ->00 as x -> 00, y -> 00 or (1,1)



a. State the x and y intercepts of this parabola.



a. State the x and y intercepts of this parabola.

X-INT ~ -3.5, 1.5 Y-INT ~ -2.5

