

2.1 Quadratic Parent Function CYU DAY TWO

Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

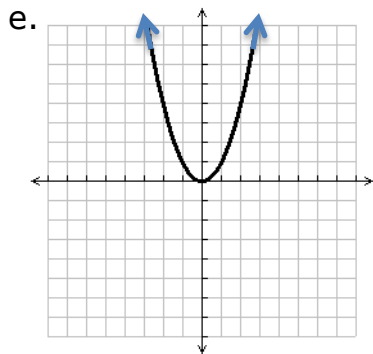
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Vertex	1 - 12		
Horizontal/Vertical Stretch/Compression		1 - 12	
Translation left, right, up, down	1 - 12	1 - 12	
Graphing Quadratics	1 - 12		
Using the Calculator	1 - 12		
Domain/Range in interval notation	1 - 12	1 - 12	

Directions: For each quadratic equation, describe the following changes...

- a. Vertex new location?
- b. Does the parabola get Stretched or Compressed? Horizontal or Vertical? Factor?
- c. Does the parabola shift left or shift right? How many units?
- d. Does the parabola shift up or shift down? How many units?
- e. Sketch the given equation on the same graph as the parent function. Label.
- f. Domain and Range in interval notation.

1. $y = \frac{1}{2}(x+1)^2 - 4$

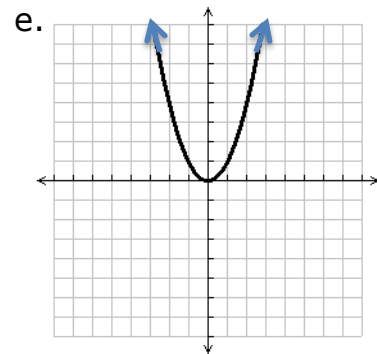
- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

2. $y = -3(x + 2)^2 + 8$

- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

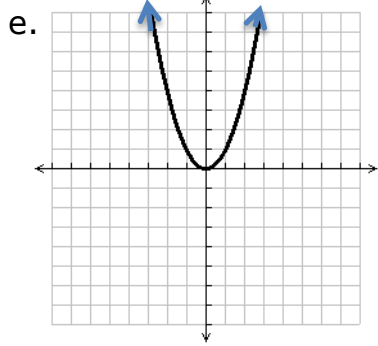
3. $y = \frac{1}{6}(x + 3)^2 + 3$

a. _____

b. _____

c. _____

d. _____



f. _____

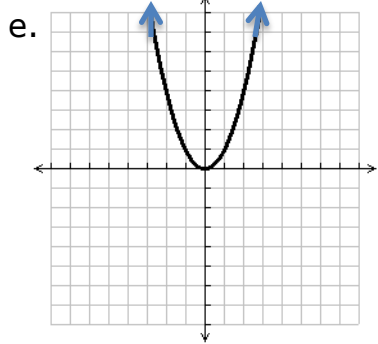
5. $y = -\frac{1}{4}(x - 1)^2 - 2$

a. _____

b. _____

c. _____

d. _____



f. _____

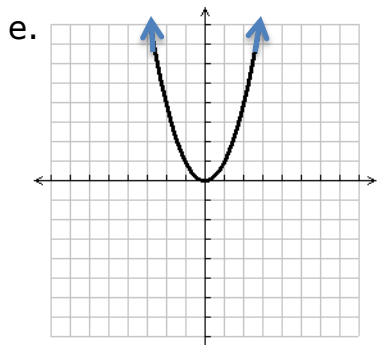
7. $y = -2(x - 2)^2 - 5$

a. _____

b. _____

c. _____

d. _____



f. _____

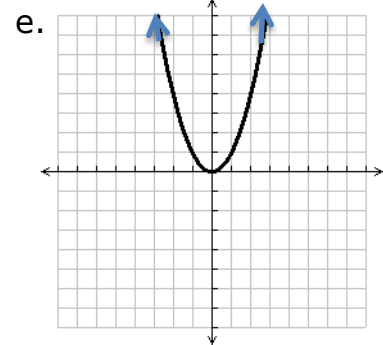
4. $y = 7(x + 4)^2 + 1$

a. _____

b. _____

c. _____

d. _____



f. _____

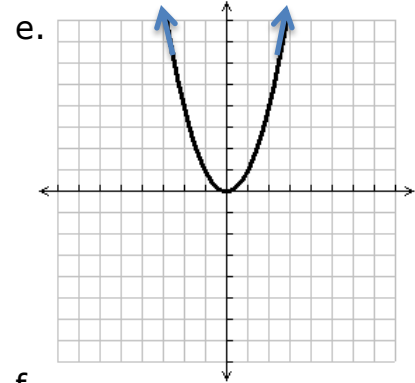
6. $y = -\frac{1}{8}(x - 4)^2 + 4$

a. _____

b. _____

c. _____

d. _____



f. _____

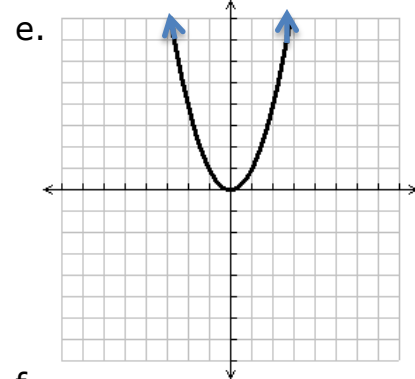
8. $y = 4(x - 1)^2 - 3$

a. _____

b. _____

c. _____

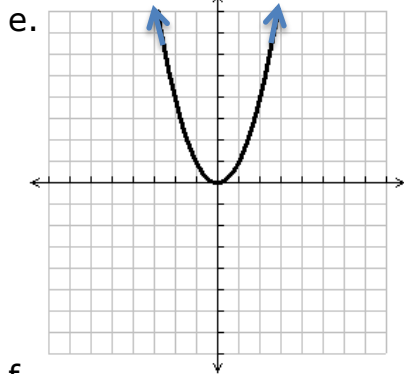
d. _____



f. _____

9. $y = (x + 1)^2 - 4$

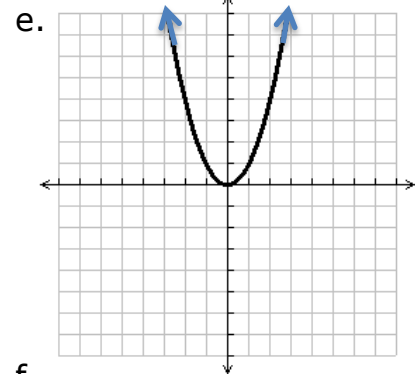
- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

10. $y = -(x - 2)^2 + 1$

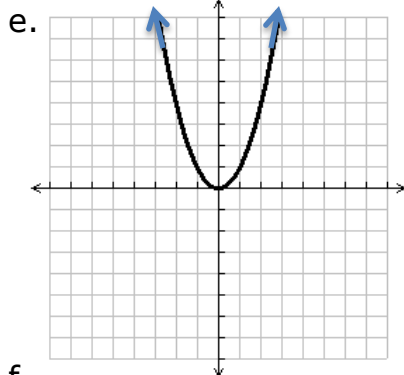
- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

11. $y = (x - 4)^2 + 5.5$

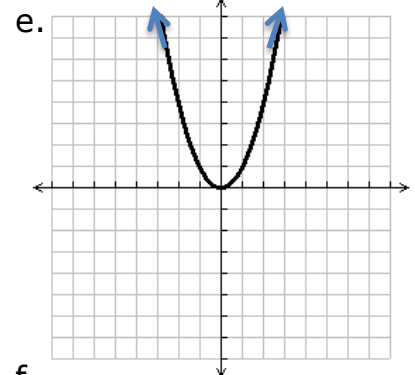
- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

12. $y = -(x + 2)^2 - 8$

- a. _____
- b. _____
- c. _____
- d. _____



- f. _____

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

