Name _____Key_____ Date _____ Pd ____

2.2 Identifying Parts of a Parabola DAY THREE CYU

☑ 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
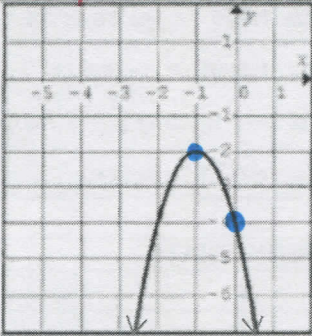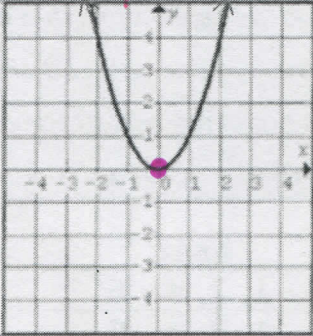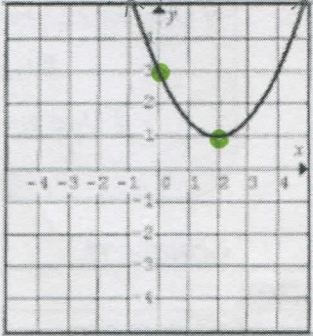
G Use when you completed the problem in a group

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, 2, 4 - 6	3	
Axis of Symmetry	1, 2, 4 - 6	3	
Minimum/Maximum Value	1, 2, 4 - 6	3	
Increasing/Decreasing		1, 2, 4 - 6	3
Domain/Range	1, 2, 4 - 6	3	
x-intercept(s), roots, zeros, solutions	1 - 6		
y-intercept	1 - 6		
Opens Up/Down	1 - 6		

For each of the following parabolas, identify the following properties. Use correct notation for each.

Graph			
Vertex	(3, 4)	(-4, -9)	(-0.5, -3.0)
Max/Min Value	Max, 4	Min, -9	Min, -3
Axis of Symmetry	X = 3	X = -4	X = -0.5
Zero(s)	X = 1, 5	X = -7, -1	X = -3, 2
Direction of Opening	down	up	up
y-intercept	(0, -5)	(0, 7)	(0, 3)

Domain	$(-\infty,\infty)$	$(-\infty,\infty)$	$(-\infty,\infty)$
Range	$(-\infty,4]$	$[9,\infty)$	$[3.1,\infty)$
Increasing	$(-\infty,3)$	$(-4,\infty)$	$(-0.5,\infty)$
Decreasing	$(3,\infty)$	$(-\infty,-4)$	$(-\infty,-0.5)$
Graph			
Vertex	$(-1,-2)$	$(0,0)$	$(2,1)$
Max/Min Value	Max, -2	Min, 0	Min, 1
Axis of Symmetry	$x=-1$	$x=0$	$x=2$
Zero(s)	no solutions	$x=0$	no solution
Direction of Opening	down	up	up
y-intercept	$(0,-4)$	$(0,0)$	$(0,3)$
Domain	$(-\infty,\infty)$	$(-\infty,\infty)$	$(-\infty,\infty)$
Range	$(-\infty,-2]$	$[0,\infty)$	$[1,\infty)$
Increasing	$(-\infty,-1)$	$(0,\infty)$	$(2,\infty)$
Decreasing	$(-1,\infty)$	$(-\infty,0)$	$(-\infty,2)$

What are you struggling with still from these concepts?

answers may vary

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.

1 2	3 4 5	6 7	8
Basic	Intermediate	Advanced	Solved ALL!