

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

## 2.2 QUAD BASICS: Graphing Parabolas DAY TWO 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
Graphing Quadratics (5 points)	1 - 6		
Vertex	3, 4, 5	1, 2, 6	
Axis of Symmetry	3, 4, 5	1, 2, 6	
Minimum/Maximum Value	3, 4, 5	1, 2, 6	
Increasing/Decreasing	3, 4, 5	1, 2, 6	
Domain/Range	1 - 6		
x-intercept(s), roots, zeros, solutions	1 - 6	1 - 6	1 - 6
y-intercept	1 - 6		
Opens Up/Down	1 - 6		
Creating a t-chart	1 - 6		

1.  $y = 2x^2 - 2$

y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_

Roots (x-intercepts): \_\_\_\_\_

Max or Min Value: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Opens Up or Down \_\_\_\_\_

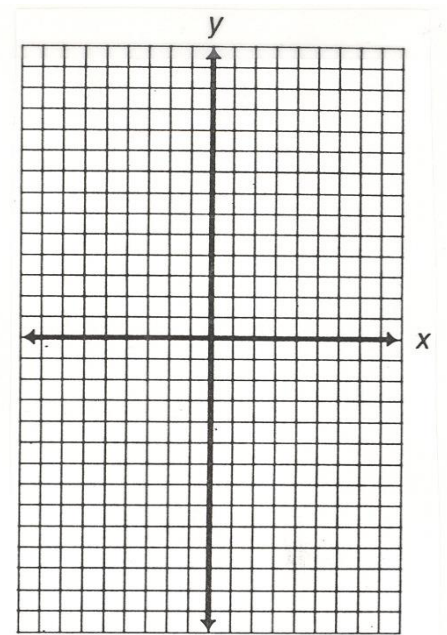
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Increasing: \_\_\_\_\_

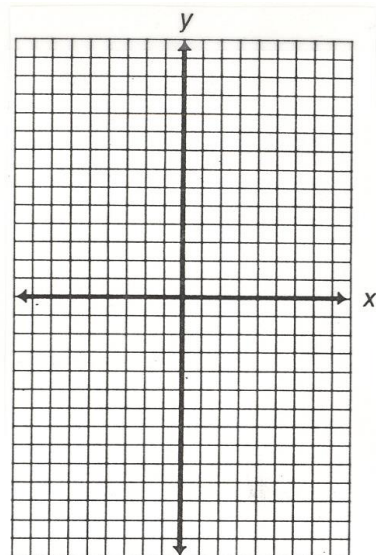
Decreasing: \_\_\_\_\_

x	y



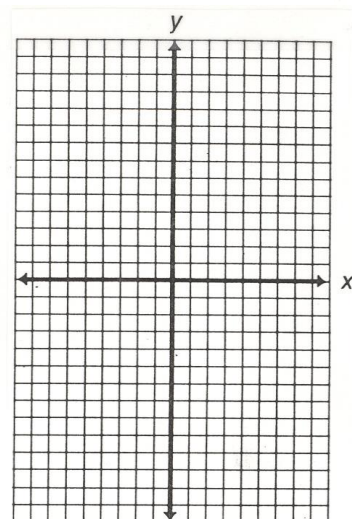
2.  $y = -6x^2 + 6$   
 y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_  
 Roots (x-intercepts): \_\_\_\_\_  
 Max or Min Value: \_\_\_\_\_  
 Axis of Symmetry: \_\_\_\_\_  
 Opens Up or Down \_\_\_\_\_  
 Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Increasing: \_\_\_\_\_  
 Decreasing: \_\_\_\_\_

x	y



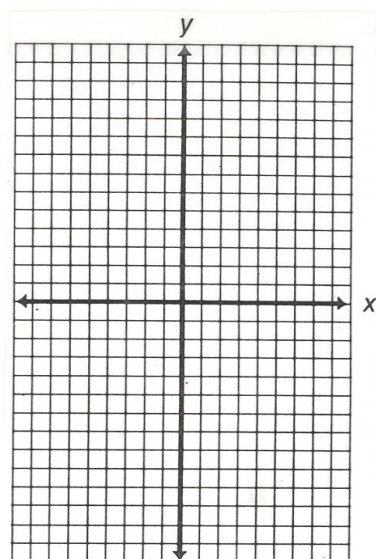
3.  $f(x) = x^2 + 6x + 5$   
 y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_  
 Roots (x-intercepts): \_\_\_\_\_  
 Max or Min Value: \_\_\_\_\_  
 Axis of Symmetry: \_\_\_\_\_  
 Opens Up or Down \_\_\_\_\_  
 Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Increasing: \_\_\_\_\_  
 Decreasing: \_\_\_\_\_

x	y



4.  $f(x) = x^2 - 8x + 7$   
 y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_  
 Roots (x-intercepts): \_\_\_\_\_  
 Max or Min Value: \_\_\_\_\_  
 Axis of Symmetry: \_\_\_\_\_  
 Opens Up or Down \_\_\_\_\_  
 Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 Increasing: \_\_\_\_\_  
 Decreasing: \_\_\_\_\_

x	y



5.  $y = x^2 - 10x + 21$

y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_

Roots (x-intercepts): \_\_\_\_\_

Max or Min Value: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Opens Up or Down

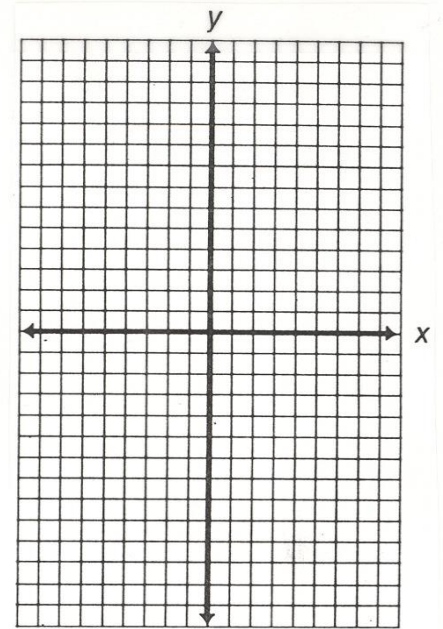
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Increasing: \_\_\_\_\_

Decreasing: \_\_\_\_\_

x	y



6.  $f(x) = -2x^2 + 8x + 7$

y-intercept: \_\_\_\_\_ Vertex: \_\_\_\_\_

Roots (x-intercepts): \_\_\_\_\_

Max or Min Value: \_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_

Opens Up or Down

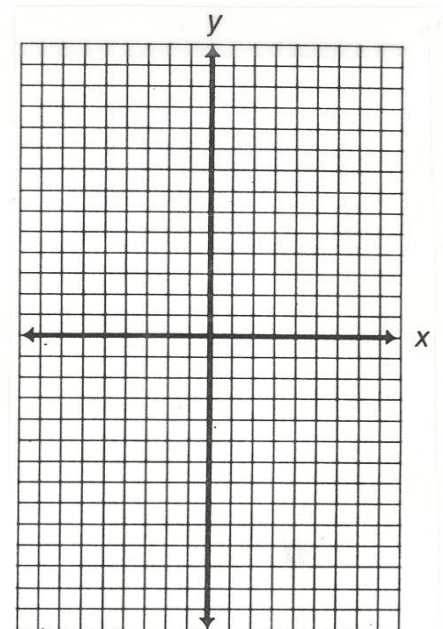
Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Increasing: \_\_\_\_\_

Decreasing: \_\_\_\_\_

x	y



**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.

