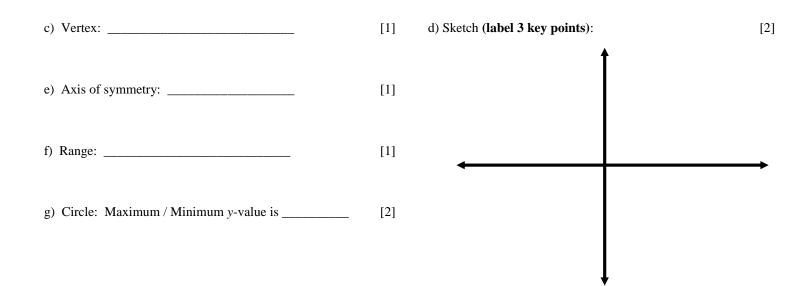
PART A – Multiple Choice (10 Marks) Circle the letter corresponding to the correct solution.

1. What is the stretch factor of the quadratic function $y = -2(x-1)^2 + 4$?					
[A] -1	[B] -2	[C] 2	[D] 4		
2. If a quadratic function has a mi	inimum y value of 2, then the function	on could be			
-	[B] $y = 3(x+5)^2 + 2$		[D] $y = -3(x+2)^2 + 5$		
3. Write the following equation in Standard Form $y = 4(x-3)^2 - 16$					
$[A] y = 4x^2 - 24x + 20$	[B] $y = 4x^2 + 20$	$[C] y = 4x^2 - 12x + 20$	$[D] y = 4x^2 + 24x + 20$		
4. What is the <i>y</i> -intercept for the	quadratic given by the equation	$y = -\frac{2}{3}(x-3)^2 + 5?$			
[A] (0, 2)	[B] (0,1)	[C] (0, -1)	[D] (0, -4)		
5. What is the vertex of the quadr	atic function $y = 2r^2 = 12r \pm 5^2$				
[A] (3,5)	[B] $(3, -13)$	[C] (3, -4)	[D] (6, -67)		
6. Determine the axis of symmetr	y for the quadratic shown:	2.0			
[A] $x = 2$	[B] $x = -4$	-6.0 -4.0 -2.0	2.0		
[C] $y = 3$	$[D] y \le 3$	-2.0			
7. Which of the following has its axis of symmetry given by the equation $x = -3$?					
[A] $y = 2(x-3)^2 + 5$	[B] $y = 2(x+3)^2 + 5$	$[C] y = 2(x-5)^2 - 3$	[D] $y = 2(x-5)^2 - 3$		
8. Given the graph of $y = a(x+1)$ [A] shifts upward	$p^2 - 7$. If the value of a is replaced [B] shifts downward	by 5 <i>a</i> , then the graph [C] becomes wider	[D] becomes narrower		
9. What is the range of the quadra [A] $\{y \le 5\}$	tic function $y = -3(x-2)^2 -$ [B] $\{y \le -5\}$	-5 [C] $\{y \ge 5\}$	[D] $\{y \ge -5\}$		
10. If the graph of $y = 5(x+1)^2 - [A] 5$	4 is sketched, which of the followin [B] 1	g is not a possible value of <i>y</i> on the [C] –4	graph? [D] –6		

Name: _____

1. Complete the following for the equation	y = 3x	$x^2 - 24x + 36$	
a) Vertex Form:	[3]	b) y-intercept	[1]



2. Change the following into standard form and state the given properties.

$$y = \frac{2}{3}(x+6)^2 - 23$$

Vertex				
y-intercept				
Sketch: Must have <u>3 key points</u> labeled				
	Ĩ			
•	→			
	+			

[6]

 $y = -5(x+3)^2 + 8$ **Standard Form Direction of Opening Stretch Factor** Vertex y-intercept Domain Range **Equation for Axis of Symmetry** Maximum OR Minimum

Minimum /Maximum Value

Sketch: Must have <u>3 key points</u> labeled