**LT #1: Introduction to Quadratic Functions**

1. $ $(6 Points)
Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
AOS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Max Min: \_\_\_\_\_\_\_\_\_\_\_\_\_

(Circle Max or Min and indicate value)

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

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

2. (1 Point)

Opens Up or Opens Down

(Circle one)

3. (3 Points)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 /10

1. Given $y=2(x+1)^{2}-2$
	1. Identify the vertex
	2. Identify the axis of symmetry
	3. Identify the maximum or minimum value
	4. Identify the domain of the function
	5. Identify the range
2. Does the graph of the parabola $f\left(x\right)=-2x^{2}+3x-1$ open up or down?
3. Write a quadratic function to model the graph. Hint: Start with the vertex.

