## Name \_\_\_\_\_ **Intermediate Algebra A** Period L.T. 4.1 A – B 2) **From #1:** Fill in the table below and plot the 1) Find the Vertex for the equation: points to graph the equation. (Include the axis of $y = x^2 - 4x + 3$ symmetry as a dashed line) Hint: $(\frac{-b}{2a}, f(\frac{-b}{2a}))$ Y Х Based on the equation, will the vertex be a maximum or a minimum? Find the vertex: 3) **From #1:** 4) Find the x-intercepts and the vertex for: Identify: y = (x + 5)(x - 1)Axis of Symmetry: \_\_\_\_\_ x-intercepts: \_\_\_\_\_ Y – intercept: \_\_\_\_\_ Vertex: Domain: \_\_\_\_\_ Range: \_\_\_\_\_ 5) **From #4:** Fill in the table below and plot the From #4: 6) points to graph the equation. (Include the axis of symmetry as a dashed line) Identify: Χ Y Axis of Symmetry: \_\_\_\_\_ Y – intercept: \_\_\_\_\_ Domain: \_\_\_\_\_ Range: \_\_\_\_\_

Intermediate Algebra A L.T. 4.1 A – B

Name \_\_\_\_\_

Period \_\_\_\_\_

**Round Table** 

1. Find the Vertex for the equation:	2. What will the axis of symmetry be for the parabola?
$y = -(x-3)^2 - 6$	
Vertex:	Axis of Symmetry:
	X =
Based on the equation, will the vertex be a maximum or a minimum?	
3. <u>Algebraically</u> , fill in the table below and plot the points to graph the equation. (Include the axis of symmetry as a dashed line)	4. What is the Domain and Range of the graph?
	Domain:
	Range: