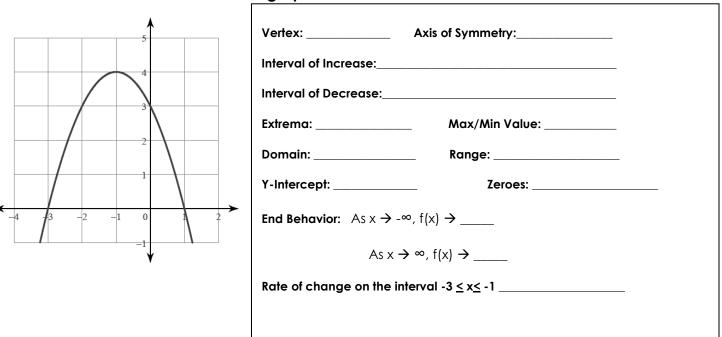
Algebra 1 Unit 6 # 2 Remediation Version B

Name:	
Date: _	Period:

Vertex Form	Standard Form	Find the Vertex in Standard Form
$y = a(x-h)^2 + k$	$y = ax^2 + bx + c$	$x = \frac{-b}{2a}$, substitute in to find y



1) Describe the characteristics of the graph below.

2. Convert the following to standard form:

.

$$y = 2(x+1)^2 + 3$$

3. Convert the following to vertex form:

$$y = 3x^2 + 12x + 6$$

4. A missile is launched along the path determined by the equation $f(x) = -2x^2 + 72x$, where f(x) is the height of the missile in feet x seconds after it has been launched. A plane is also flying at a constant height of 700 feet. Is the plane in danger? Why or why not? (you have to show why using MATH!)