Algebra 1	Chapter 9 Test Version 1	6
Show All	Work for Full Credit!!!!!	

1. Solve by Factoring: $x^2 + 7x + 12 = 0$

Name:			

2. Solve by the Quadratic Formula: $x^2 + 7x + 12 = 0$

$$x^2 + 7x + 12 = 0$$

3.	Solve	by	Square	Roots
3 x	$c^2 - 48$	= ()	

4	. Find	the	characteris	tics fo	r the	graph	then	graph	the	quadrati	c:
S	HOW	AL	L WORK!	!!!							

$$y = x^2 - 10x + 24$$

Axis of Symmetry: _____

Vertex:

Zeros: _____

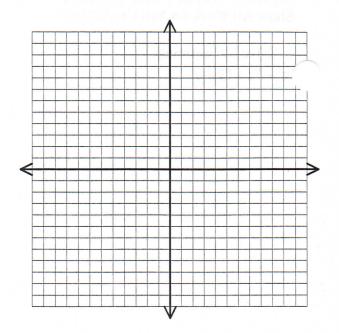
Opens Up or Down: _____

Max or Min:

Domain:

Range:

Y-Intercept:



5. The height h of an arrow in feet is modeled by $h = -16t^2 + 63t + 4$ where t is time in seconds since the arrow was shot.

a. What is the maximum height and when does it occur?

b. How long does it take the arrow to reach the ground?

c. How long until the arrow is 12 feet in the air?