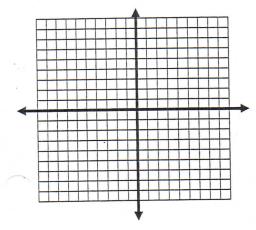
Show All Work for Credit!!!!!!!!!!!!!!!

or the Quadratic Equation Find the following Then Graph:

- a. Axis of Symmetry
- b. Vertex
- c. Zeros/Roots/X-intercepts
- d. If it Opens Up or Down
- e. Is it a Max or Min
- f. What is the Domain
- g. What is the Range
- h. Y-intercept
- 1. $y = x^2 + 8x + 12$



Axis of	Symmetry	/:
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Vertex:

Zeros: _____

Opens Up or Down:_____

Max or Min: _____

Domain: _____

Range:

Y-intercept:_____

2. The height of a flare fired from the deck of a ship in distress can be modeled by $h = -16t^2 + 104t + 56$, where h is the height of the flare above water and t is the time in seconds.

A. Find the time it takes the flare to hit the water

B. Find the maximum height of the flare

a.	Time	to	hit	the	water:	
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b. Maximum height: _____

3. Solve by factoring:

$$y = 3x^2 - 12x - 36$$