

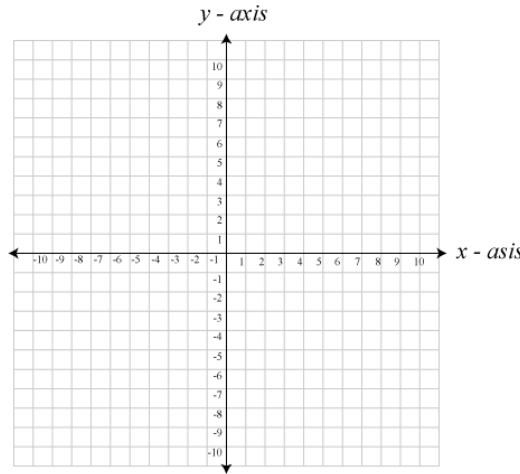
Assignment: Graphing Quadratic Functions

Graph the following quadratic functions in standard form, vertex form, and factored (intercept form) and name the following:

- a.) Vertex b.) axis of symmetry c.) y-intercept d.) Domain e.) Range

1. $y = x^2 + 4x - 2$ **Graph both on the same coordinate plane (2 colors)** 2.) $y = 2x^2 + 8x - 1$

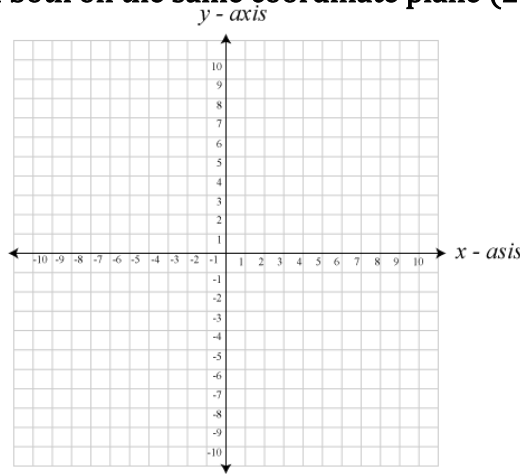
- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in red



- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in blue

3. $y = -(x + 2)^2 + 4$ **Graph both on the same coordinate plane (2 colors)** 4.) $y = 2(x - 1)^2 + 3$

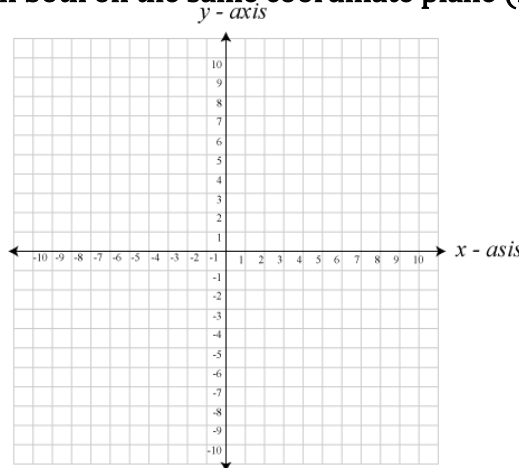
- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in red



- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in blue

5. $y = (x - 1)(x + 1)$ **Graph both on the same coordinate plane (2 colors)** 6.) $y = (x - 1)(x + 5)$

- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in red



- a.) Vertex: _____
 b.) AoS: _____
 c.) y-intercept: _____
 d.) D: _____
 e.) R: _____
 f.) Graph in blue