For each of the following quadratic functions: (a). Find the (x, y) coordinate of the vertex; Is it a maximum or a minimum? (b). Graph the function (w/o calculator). Label the vertex.

1.
$$y = x^2 - 4$$
 2. $y = -2x^2 - 18$



3. $2x^2 + 5x + y = 0$

4. $x^2 - 4y = 12$



For each of the following quadratic functions: (a). Find the (x, y) coordinate of the vertex; Is it a maximum or a minimum? (b). Find the x- and y- intercepts, if they exist. (c). Graph the function (w/o calculator). Label the vertex and intercepts.

5.
$$y = x^2 + 4x + 5$$
 6. $y = -x^2 - 2x + 3$



HW: Section 2.2, p. 143:

#1-5(odd) but with these directions: (a). Find the (x, y) coordinate of the vertex; Is it a maximum or a minimum? (b). Graph the function (w/o calculator). Label the vertex.

#7-11(odd) but with these directions: (a). Find the (x, y) coordinate of the vertex; Is it a maximum or a minimum? (b). Find the x- and y- intercepts, if they exist. (c). Graph the function (w/o calculator). Label the vertex and intercepts. #31, 33, 35, 39