Assignment 6 Name_____

Quadratic Formula:

$$x^2 + bx + c = 0$$

$$x_1 = \frac{-b - \sqrt{b^2 - 4c}}{2} \qquad x_2 = \frac{-b + \sqrt{b^2 - 4c}}{2}$$

Use the quadratic formula to solve for the value(s) of x in the following:

$x^2 + 4x + 4$

$x^2 - 4x + 4$

$x^2 - 6x + 9$

$x^2 + 5x + 2$

$x^2 + 5x - 2$

$x^4 + 4x^2 + 4$ (Hint: Consider substituting $y = x^2$ then rewrite the equation in terms of y).