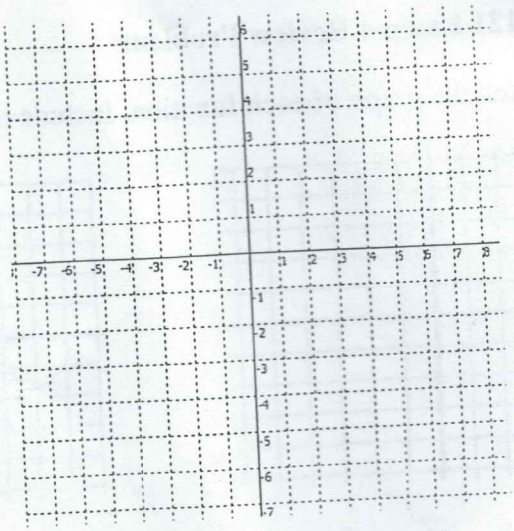
6. Given the quadratic equation:, $h(x) = -2x^2 + 4x + 4$



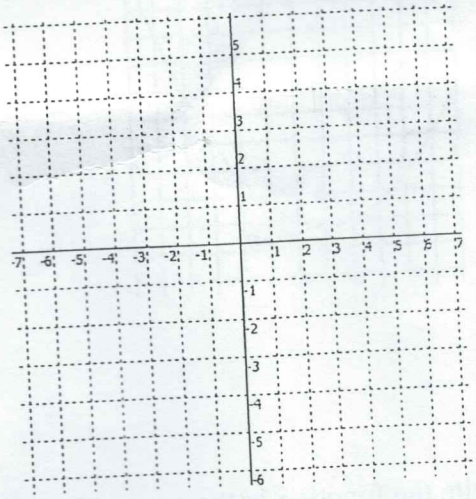
a. Complete the square and put the function in vertex form.

b. Find the x- intercepts using the quadratic formula

c. Graph the function, labeling the vertex, the x- intercepts and the y-intercept.

d. DOMAIN: _____ RANGE: _____

7. Given the quadratic equation:, $g(x) = \frac{1}{2}x^2 + x - \frac{3}{2}$



a. Complete the square and put the function in vertex form.

b. Find the x- intercepts using the quadratic formula.

c. Graph the function, labeling the vertex , the x- intercepts and the y-intercepts.

d. DOMAIN: _____ RANGE: _____

8. Write each formula as it is described.

a. The pressure, P, is directly proportional to the square of the temperature, T.

b. The pressure, P, is inversely proportional to the square root of the temperature, T.