

Name _____

Homework 14

Section 4.1

1. (4) Determine the quadratic function which has vertex $(-3, 4)$ and passes through the point $(1, 12)$. Give your answer in *general* form.

2. (3ea) Rewrite the following quadratic functions in standard form.

(a) $f(x) = -x^2 - 3x + \frac{3}{4}$

(b) $g(x) = (x + 1)^2 + (x - 3)^2$

3. (5) Determine the vertex and intercepts of the graph of $y = 5(x + 6)^2 - 20$.

4. (5) Determine the equation, in standard form, for the graph shown below.

