Name _____

Homework 12
Section 2.2

1. (4) Determine the quadratic function which has vertex $(-2, 3)$ and passes through the point $(2, 11)$. Give your answer in *general* form.

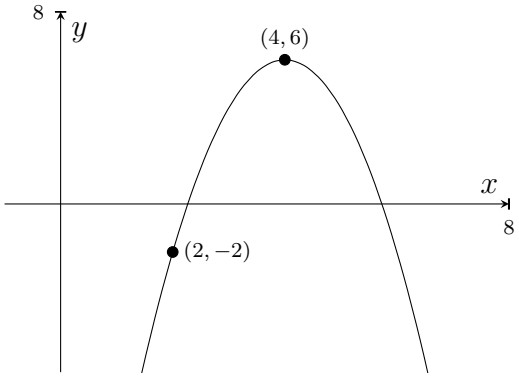
2. (4ea) Rewrite the following quadratic functions in standard form.

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

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

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

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




5. (1) Determine the general form of the quadratic function whose graph passes through the points $(0, -2)$, $(1, 2)$, and $(2, 8)$.