## HW 3

Write up the following problems, and pass them in during class on Monday. You must show work to get credit.

- 1. Graph the function  $f(x) = \frac{1}{2}(x-1)^2 + 2$  from x = -3 to x = 4.
- 2. Graph the function  $f(x) = \frac{1}{3}x^3 + 4x^2 \frac{2}{3}x + 1$  from x = -1 to x = 5, and on the same axes, graph the inverse function,  $f^{-1}(x)$ .
- 3. By drawing a graph, estimate all solutions x to the equation

$$\sqrt{x} = \frac{1}{3}(x+1)$$

- 4. Do problem 2.2.7 from the text.
- 5. Do problem 2.2.10 from the text.