

Your name here

Class name

Date here

### Homework 3

Check out <http://detexify.kirelabs.org/classify.html> for a website where you can hand-draw a  $\LaTeX$  symbol and it will try to recognize it and tell you how to get it in  $\LaTeX$  (including which package it needs, if it needs one).

**23.** This is where we solve Problem 23 by sheer wit and amazing technical dexterity. And then we go on to the next problem.

**32.** Problem 32 is somewhat more difficult, since it is an even-numbered problem and the answer is not in the back of the book. But we still solve it too, using the master formula:

$$e = \frac{1}{2}mc^2 \pm \varepsilon.$$

It's hard to stop the master formula with mere mathematical dilemmas, you know. We could even state it within the text as  $e = (1/2)mc^2 \pm \varepsilon$ , and we could add  $x$  or  $\Gamma$  to the right side as desired (to finish the problem).  $\square$

**40.** We solve this one with a series of equations and inequalities:

$$\begin{aligned} 2 &= 1 + 1 \\ &= 37 - 35 \\ &\geq -71.3 \\ &= -71.3. \quad \square \end{aligned}$$