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). □

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

\[
\begin{align*}
2 &= 1 + 1 \\
&= 37 - 35 \\
&\geq -71.3 \\
&= -71.3. \, \, \square
\end{align*}
\]