## Practice Problems

These problems are not to be handed in, but try them first; also try the even problems if you need more practice.

- From §6-2 (pages 370-372): 13-35 odd;
- From §7-3 (pages 436-438): 7-19 odd.

The answers to these should be in the back of your textbook.

## Due Problems

These problems are due May 17 Thursday.
Evaluate each of the following (definite or indefinite) integrals. If you integrate by substitution, show $u$ and $\mathrm{d} u$; if you integrate by parts, show $u, v, \mathrm{~d} u$, and $\mathrm{d} v$. (In any case, show at least one intermediate step for each.)
$1 \int \frac{x}{x^{2}+1} \mathrm{~d} x$
$2 \int t e^{4 t} d t$
$3 \int_{1}^{e} 4 x \ln x \mathrm{~d} x$
4 Extra credit: $\int \mathrm{e}^{\sqrt{x}} \mathrm{~d} x$

