

TO THE STUDENT

Here are a few comments and suggestions to help you get the most out of your study of calculus using *Mathematica*:

- You are asked not to hand in any printer output, but only handwritten responses (in complete sentences!) on the actual sheets in this manual. This will help you to think much more carefully about the results *Mathematica* gives and why it gives them.
- Every effort has been made to fit the text of each *Mathematica* command all on one line, but in some cases, especially in the later assignments, this simply wasn't possible. Remember never to insert your own carriage returns when typing commands into *Mathematica* — if the command you are typing doesn't fit across one line, then the program will automatically wrap it to the next line for you.
- Always start with a fresh session of *Mathematica*; the previous user may have assigned values to variables, loaded in packages, or done other things that could cause unpleasant surprises in your work. You can be sure of starting with a clean slate if you first quit the program and relaunch.
- Strive to turn in work that is not only correct — both in its mathematics and in its use of English — but neat and professional in appearance. Since you will be turning in the actual sheets in this manual, work out your answers on other paper first, and then fill out the final version on the sheets provided here.
- You will find that *Mathematica* is extremely fussy about which character is used where. If it's supposed to be `[`, then `(` or `{` won't work; likewise, if it's supposed to be `Plot`, then `plot` won't work, so pay careful attention to the exact characters used in the assignments. Even spaces are sometimes crucial!