


Preface

This *Guide* uses actual examples and applications in the applied calculus text *Calculus Concepts: An Informal Approach to the Mathematics of Change* by Donald R. LaTorre, John W. Kenelly, Iris B. Fetta, Cynthia R. Harris, and Laurel L. Carpenter. Wherever the technology icon  appears in the text, a new technology technique or an effective way to use your calculator for that particular text material is illustrated in this *Guide*. The technology icon is your clue to refer to the particular section of this *Guide* for your specific calculator that discusses the text section. When there is no reference to a certain section in the text, either there is no new procedure to learn or the necessary techniques have been covered in an earlier section of this *Guide*. Refer to the table of contents to find specific types of applications and the *TroubleShooting Guides* in this *Guide* when you have problems.

The use of technology is an integral part of your study of calculus using *Calculus Concepts*. Even though the text requires technology, it does not demand any particular technology. Any graphing calculator or computer algebra system that has the functionality indicated in this *Guide* will suffice. The materials contained herein provide instruction for using the TI-89 in your course. Guides for using the TI-83/83+ and the TI-86 with the Second Edition of *Calculus Concepts* are available from Houghton Mifflin Company. First edition *Graphing Calculator Instruction Guides* for the TI-82, TI-85, and HP-48G/GX graphing calculators are also available at the web site.

The discussions in this *Guide* are ordered to match the organization of the text chapters. These notation conventions are used to help you recognize various commands and keystrokes:

- Main keyboard keys are enclosed in rectangular boxes except for numeric keys and English alphabet letters; for example, ENTER.
- The second function of a key is listed in parentheses after the main keyboard keystrokes used to activate the second function; for example, 2nd ESC (QUIT).
- The alpha or green functions of keys are listed in parentheses after the main keyboard keystrokes used to activate the alpha or green function; for example, ALPHA 4 (L).
- Function keys and menu items are indicated by the main keyboard key followed by the keystroke sequence necessary to access the item and then the name of the item in brackets; for example, F1 [Tools] 5 [Copy].

This *Guide* does not replace your calculator's instruction manual. You should refer to that manual to learn about the basic operation and use of your calculator. Calculator programs referenced in these materials (for both PC and Macintosh downloads) and *Program Appendices* containing the calculator code for the programs are at the *Calculus Concepts* Website accessible through **college.hmco.com**.

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This work is dedicated to the memory of my parents, Iris Burns Brann and Charles Harry Brann.

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