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› **TI-83 Plus Graphing Calculator For Dummies: Comprehensive Instruction Manual**

For Dummies TI-83 Plus

TI-83 Plus Graphing Calculator For Dummies: Instruction Manual

Your Guide to Mastering the TI-83 Plus with This Book
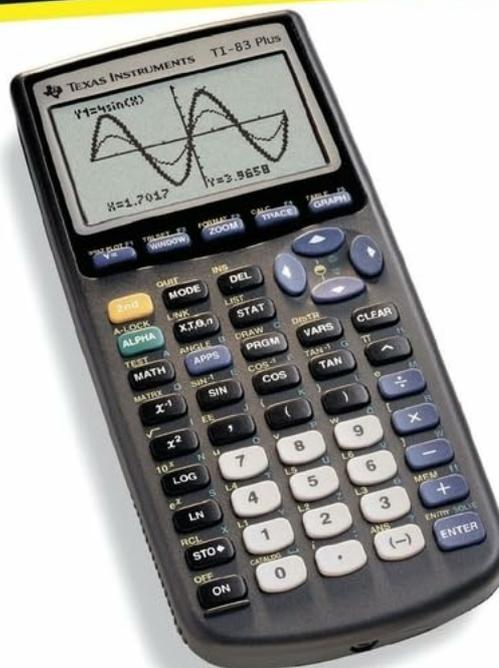
1. INTRODUCTION TO THIS GUIDE

This instruction manual serves as a comprehensive guide to utilizing the *TI-83 Plus Graphing Calculator For Dummies* book. It outlines the book's structure, content, and how it can assist users in understanding and operating the TI-83 Plus graphing calculator. The book is designed to help users explore the full range of features available on their calculator through easy-to-follow, step-by-step instructions and visual aids.

Image 1.1: Front cover of the *TI-83 Plus Graphing Calculator For Dummies* book. This image displays the title, a graphic of the TI-83 Plus calculator, and the author's name, C. C. Edwards.

2. GETTING STARTED WITH THIS GUIDE

To maximize your learning experience with the *TI-83 Plus Graphing Calculator For Dummies* book,

consider the following:

- **Sequential Reading:** While sections can be referenced individually, reading chapters in order is recommended for a foundational understanding.

- **Hands-On Practice:** Perform each step on your TI-83 Plus calculator as you read through the instructions in the book.

- **Screen Shots:** Pay close attention to the provided screen shots in the book, as they illustrate expected calculator displays.

- **Key Terminology:** Familiarize yourself with calculator-specific terms introduced in each chapter.

3. CORE CALCULATOR FUNCTIONS COVERED

The book provides detailed instructions on a wide array of TI-83 Plus graphing calculator functions, including:

- **Basic Arithmetic Operations:** Performing fundamental calculations.

- **Display Management:** Utilizing Zoom and panning features for optimal screen display.

- **Math Menu Functions:** Exploring the MATH, NUM, CPS, and PRB submenus.

- **Finance Applications:** Using the Finance application for loan analysis, interest calculations, and financial decision-making.

- **Graphing and Analysis:** Tracing graphs, creating tables of functional values, and graphing piecewise-defined and trigonometric functions.

- **Function Evaluation:** Finding values, zeros, and points of intersection for functions.

- **Graphical Drawing:** Drawing line segments, circles, functions, adding text, and freehand drawing on graphs.

- **Advanced Equations:** Working with sequences, parametric equations, and polar equations.

- **Probability:** Evaluating permutations and combinations using the Math Probability menu.

- **Statistical Data:** Entering and graphing statistical data (scatter plots, histograms, box plots), and calculating medians and quartiles.

- **Matrix Operations:** Dealing with matrices, including finding inverse, transpose, determinant, and solving systems of linear equations.

4. EXPANDING CALCULATOR CAPABILITIES

The guide also covers methods to enhance your TI-83 Plus calculator's functionality:

- **Connecting to a Computer:** Instructions for downloading and installing the free TI Connect software to link your calculator to a computer.

- **Calculator Linking:** How to connect your TI-83 Plus to other calculators and transfer files.

- **Downloading Applications:** Information on accessing and installing over 40 applications from the TI website, many of which are free. Examples include Advanced Finance, CellSheet (spreadsheet), NoteFolio (word processor), and Organizer (scheduler, contact manager).

Use this cool tool to perform dozens of tasks!

Do simple and complex calculations, analyze loans, even send files to your PC

Nothing can crunch numbers like your TI-83 Plus, and this handy guide makes the crunching easy! In no time you'll be punching those buttons to convert decimals to fractions, find factorials, compare interest rates, graph and analyze functions and sequences, tame random numbers, manage matrices, and even have your calculator sharing stuff with your PC.

C.C. Edwards is an instructor at Coastal Carolina University. Previously, she was the editor of *Eightysomething*, Texas Instruments' newsletter that explored the features of graphing calculators for parents and educators.

Discover how to:

Solve equations and systems of equations

Graph functions, parametric equations, and sequences

Use complex numbers

Multiply, reduce, and solve matrices

Add applications to your calculator

THE DUMMIES WAY

Explanations in plain English

"Get in, get out" information

Icons and other navigational aids

Online cheat sheet

Top ten lists

A dash of humor and fun

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Mathematics/ General

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Image 4.1: Back cover of the *TI-83 Plus Graphing Calculator For Dummies* book. This image highlights key topics covered in the book, such as solving equations, graphing functions, using complex numbers, and managing matrices.

5. BOOK SPECIFICATIONS

Key details regarding the *TI-83 Plus Graphing Calculator For Dummies* book:

- **Publisher:** For Dummies
- **Publication Date:** December 19, 2003
- **Edition:** 1st
- **Language:** English
- **Print Length:** 288 pages
- **ISBN-10:** 0764549707
- **ISBN-13:** 978-0764549700
- **Item Weight:** 12.8 ounces
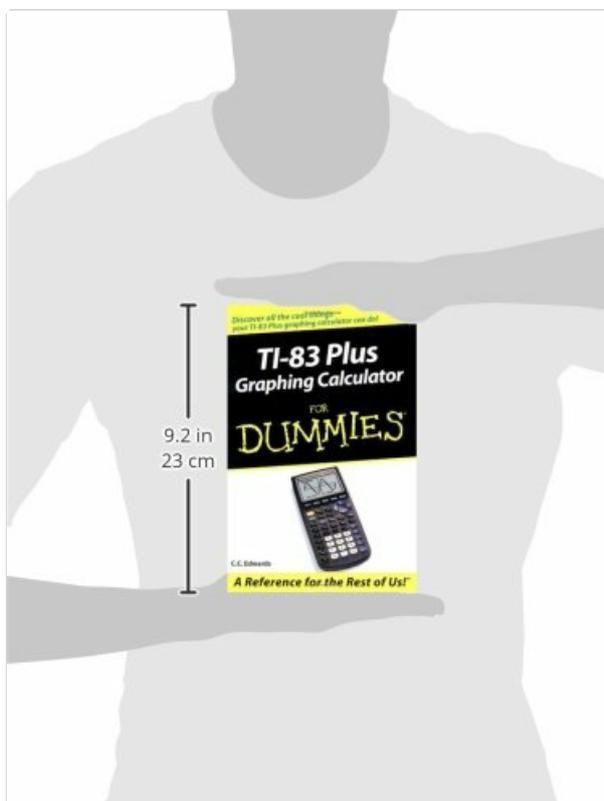- **Dimensions:** 6.1 x 0.6 x 9.3 inches

Image 5.1: This image illustrates the physical dimensions of the *TI-83 Plus Graphing Calculator For Dummies* book, indicating its height and width for reference.

6. SUPPORT AND RESOURCES

For further assistance or information regarding the book:

- **Author Information:** The book was written by C. C. Edwards, an instructor at Coastal Carolina University and former editor of Texas Instruments' newsletter, *Eightysomething*.
- **Publisher:** Published by For Dummies, a brand known for making complex topics accessible.
- **ISBN Reference:** For specific editions or inquiries, refer to ISBN-10: 0764549707 or ISBN-13: 978-0764549700.