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## Texas Instruments TI-84 Plus

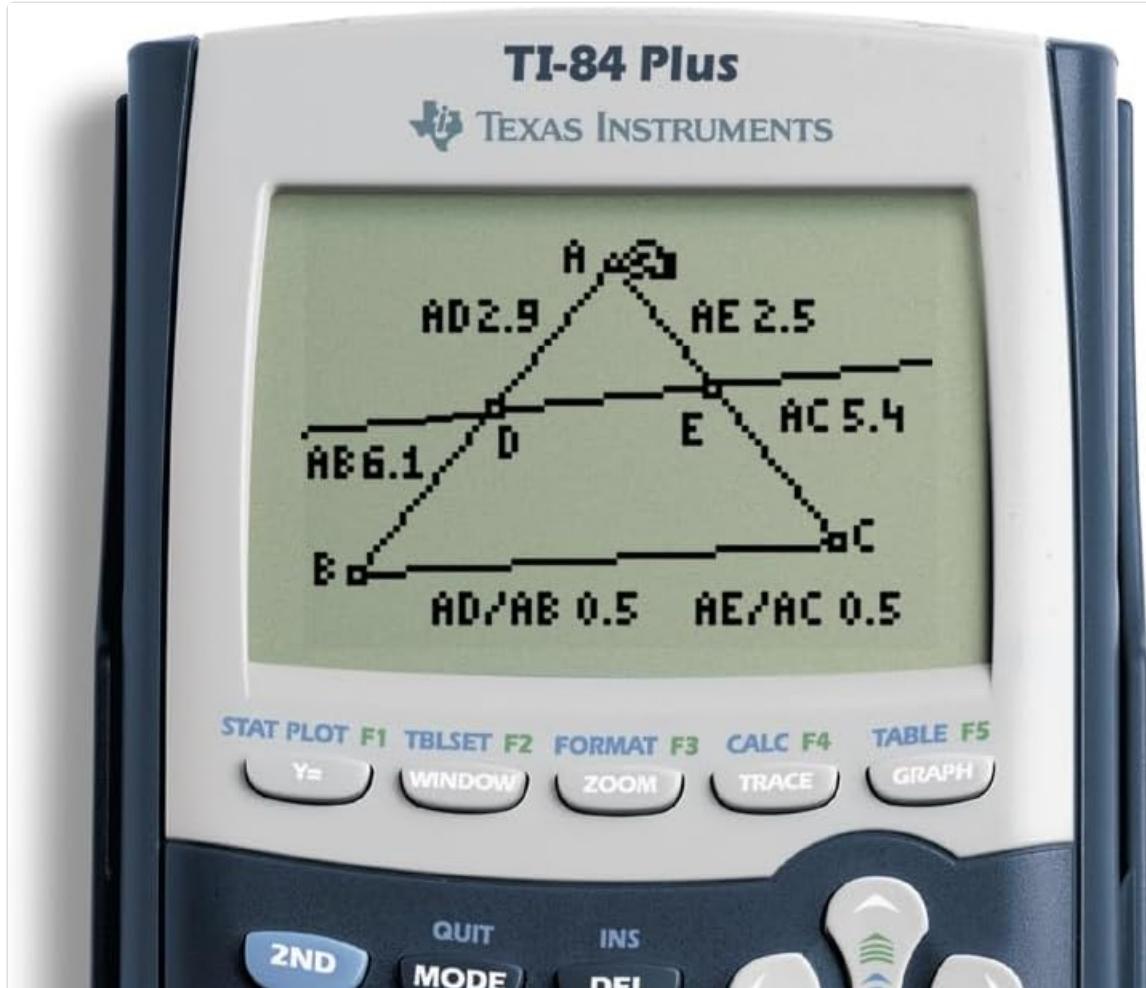
# Texas Instruments TI-84 Plus Graphics Calculator User Manual

Model: TI-84 Plus

Brand: Texas Instruments

## INTRODUCTION

The Texas Instruments TI-84 Plus is an all-purpose graphing calculator designed for students and professionals in mathematics and science. It features a high-contrast display, a fast processor, and ample memory for complex calculations and data analysis. This manual provides essential information to help you set up, operate, and maintain your TI-84 Plus calculator.





The TI-84 Plus calculator, showcasing its display with a geometric graph, indicating its capability for interactive geometry exploration.

## SETUP

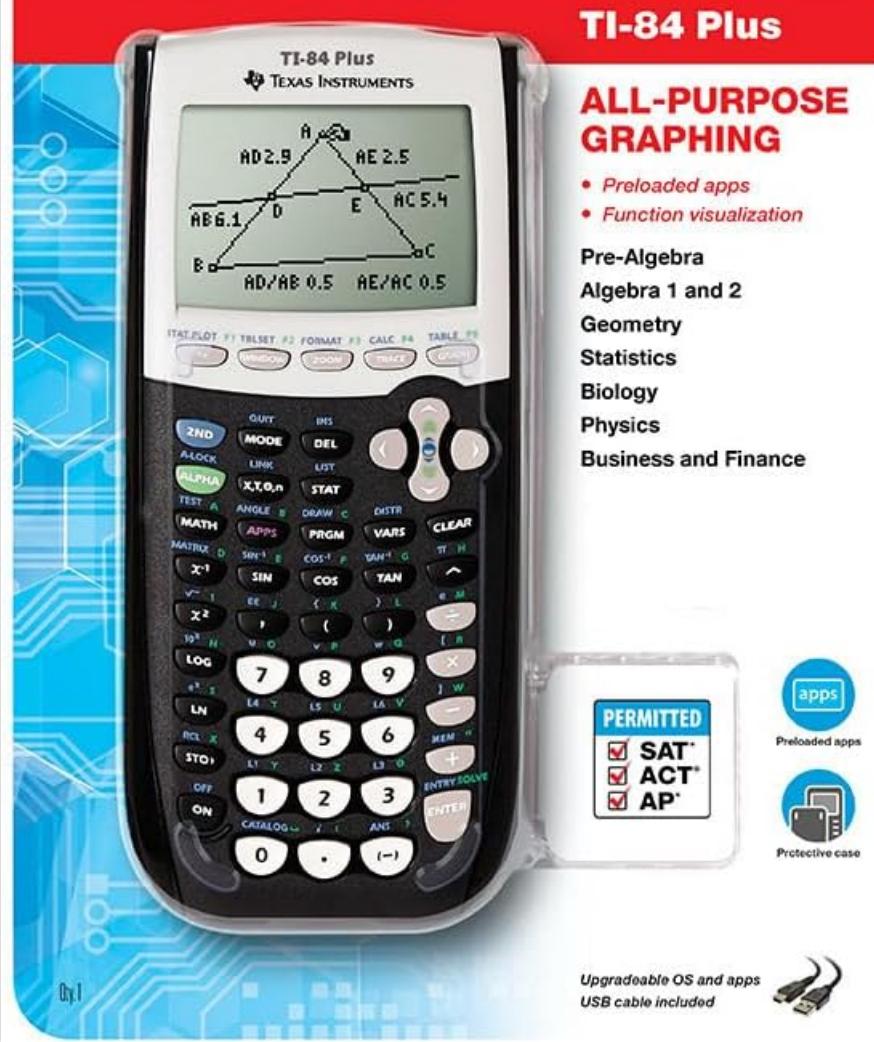
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### Battery Installation

Your TI-84 Plus calculator requires four AAA alkaline batteries for primary power and one silver oxide battery for memory backup. To install or replace batteries:

1. Locate the battery compartment cover on the back of the calculator.
2. Slide the cover off to reveal the battery slots.
3. Insert four AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. The silver oxide backup battery (typically a CR2032 or SR44SW) is located in a smaller, separate compartment. Use a small screwdriver to open this compartment and replace the battery if necessary. This battery preserves your memory settings and data.
5. Replace the battery compartment cover, ensuring it clicks securely into place.

## TI-84 Plus



The rear view of the TI-84 Plus, illustrating the main battery compartment for four AAA batteries and the smaller, circular slot for the memory backup battery.

### Initial Power-On

After installing the batteries, press the **ON** button located at the bottom left of the keypad to power on your calculator. The screen should display the home screen or the last active application.

## OPERATING THE CALCULATOR

### Basic Operations

The TI-84 Plus supports standard arithmetic operations, scientific functions, and advanced mathematical computations. Use the numeric keypad for input and the function keys for specific operations. The **ENTER** key executes commands.

### Graphing Functions

The calculator allows you to define, save, graph, and analyze up to ten graphing functions simultaneously. Use the **Y=** key to enter functions, **WINDOW** to set graph parameters, and **GRAPH** to display the graph. The split-screen option enables simultaneous viewing of a graph and its corresponding equation or table of values.

## Preloaded Applications

The TI-84 Plus comes with several preloaded applications to enhance its functionality. These include:

- **Cabri Jr.:** Interactive geometry software for exploring geometric concepts.
- **CBL/CBR:** For connecting to data collection devices.
- **Conic Graphing:** Simplifies graphing of conic sections.
- **Inequality Graphing:** Allows graphing and shading of inequalities.
- **Probability Simulations:** Tools for simulating probability experiments.
- **Science Tools:** Useful for scientific calculations and conversions.
- **StudyCards:** For creating and using flashcards.
- **TimeSpan:** For time-value-of-money calculations.
- **Topics in Algebra 1 Chapters 1-4 & 5:** Supplemental content for algebra studies.
- **Transformation Graphing:** Explores transformations of functions.

Access these applications by pressing the **APPS** key and selecting the desired program from the menu.

## MAINTENANCE

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### Cleaning

To ensure optimal performance and longevity, keep your calculator clean. Use a soft, dry cloth to wipe the screen and keypad. For stubborn dirt or dust between buttons, a soft brush or compressed air can be used. Avoid using harsh chemicals or abrasive materials, as these can damage the calculator's surface or screen.

### Battery Replacement

Replace the four AAA batteries when the display dims or the calculator fails to power on. The silver oxide backup battery typically lasts for many years and rarely needs replacement, as it primarily maintains memory when the main batteries are removed or depleted.

## TROUBLESHOOTING

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If your TI-84 Plus calculator experiences issues, consider the following common solutions:

- **Calculator not turning on:** Check if the AAA batteries are correctly installed and have sufficient charge. Replace them if necessary.
- **Screen is blank or dim:** Adjust the display contrast by pressing **2nd** then **UP** (for darker) or **DOWN** (for lighter). If this doesn't work, replace the AAA batteries.
- **Calculator freezes or behaves erratically:** Try resetting the calculator. This can often be done by pressing the **RESET** button on the back (requires a paperclip or similar pointed object) or by removing and reinserting the batteries. Note that a full reset may clear all memory.
- **Graphing issues:** Ensure your function equations are correctly entered and that the window settings (**WINDOW** key) are appropriate for the function you are trying to graph.

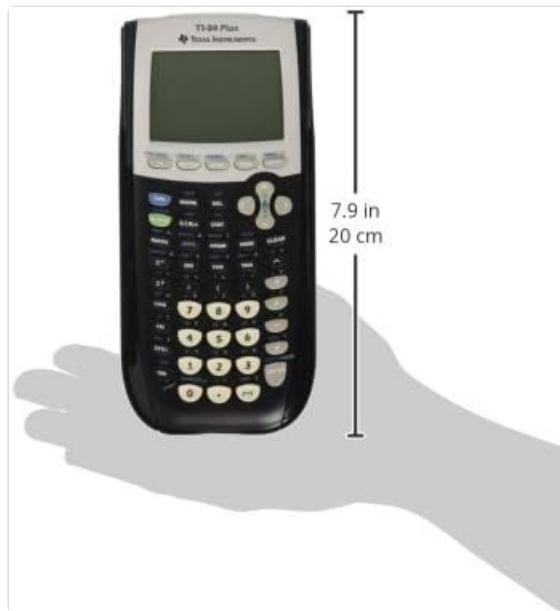
For more detailed troubleshooting, refer to the official user guide available as a PDF:[TI-84 Plus User Guide \(PDF\)](#).

## SPECIFICATIONS

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## Key Specifications of the TI-84 Plus

Feature	Detail
Display	320 x 240 pixels (2.8" diagonal), 8 lines x 16 characters
Memory	24 KB RAM, 480 KB Flash ROM
Power Source	4 AAA batteries (primary), 1 Lithium Metal battery (backup)
Dimensions (L x W x H)	7.8 x 6.06 x 1.34 inches
Item Weight	15.2 ounces
Connectivity	USB port, I/O port
Preloaded Apps	12 apps including Cabri Jr., Probability Simulations, Science Tools



The TI-84 Plus calculator held in a hand, illustrating its compact and portable design for ease of use.

The TI-84 Plus is designed for durability and long-lasting performance in educational and professional environments. It is permitted for use on various standardized tests, including SAT, ACT, AP, and IB exams.

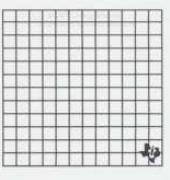
## WARRANTY AND SUPPORT

The Texas Instruments TI-84 Plus Graphics Calculator comes with a **one-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or additional resources, please visit the official Texas Instruments education website or contact their customer service. Extensive support materials, including detailed guidebooks, tutorials, and software updates, are available online.

Additional product information and resources can be found at: [education.ti.com/84-info](http://education.ti.com/84-info).

## Related Documents - TI-84 Plus

 <b>TI Connect™ CE Software</b> <small>TI Connect™ CE Software is de officiële help voor TI Connect™ CE.</small>	<p><b><a href="#">Handleiding TI Connect™ CE Software van Texas Instruments</a></b></p> <p>Leer hoe u de TI Connect™ CE Software van Texas Instruments gebruikt voor het beheren van uw grafische rekenmachines, het vastleggen van schermen, het overzetten van bestanden en het ontwikkelen van programma's.</p>
 <b>TI-84 Plus CE-T Grafische rekenmachine Gebruikershandleiding</b> <small>TI-84 Plus CE-T is de officiële handleiding voor de TI-84 Plus CE-T grafische rekenmachine.</small>	<p><b><a href="#">TI-84 Plus CE-T Grafische Rekenmachine Gebruikershandleiding</a></b></p> <p>Leer hoe u de TI-84 Plus CE-T grafische rekenmachine van Texas Instruments optimaal gebruikt met deze gedetailleerde gebruikershandleiding. Ontdek functies, bediening, menu's en toepassingen voor wiskunde en wetenschap.</p>
 <b>Getting Started with the TI-84 Plus CE-T Graphing Calculator</b> <small>To obtain the latest version of the documentation, go to <a href="#">TI-84 Plus CE-T</a>.</small>	<p><b><a href="#">Getting Started with the TI-84 Plus CE-T Graphing Calculator</a></b></p> <p>This user guide for the Texas Instruments TI-84 Plus CE-T graphing calculator provides instructions on setup, keyboard functions, mode settings, evaluating expressions, working with graphs, managing files, using applications, and troubleshooting.</p>
 <b>Calculadora gráfica TI-84 Plus CE-T Manual do proprietário</b> <small>Para mais sobre a TI-84 Plus CE-T, visite <a href="#">TI-84 Plus CE-T</a>.</small>	<p><b><a href="#">Manual do Proprietário da Calculadora Gráfica Texas Instruments TI-84 Plus CE-T</a></b></p> <p>Este manual detalha as funcionalidades e operações da calculadora gráfica Texas Instruments TI-84 Plus CE-T, cobrindo seus recursos, teclado, aplicações e solução de problemas.</p>
 <b>TI-84 Plus CE Reference Guide</b> <small>Catalog, Commands and Functions, Error Messages Arithmetic Operations, Test Relations, and Symbols</small> <small>Para mais sobre a TI-84 Plus CE, visite <a href="#">TI-84 Plus CE</a>.</small>	<p><b><a href="#">TI-84 Plus CE Reference Guide: Commands, Functions, and Operations</a></b></p> <p>Comprehensive reference guide for the Texas Instruments TI-84 Plus CE graphing calculator, detailing catalog commands, functions, error messages, arithmetic operations, test relations, and symbols for efficient use.</p>
<b>TEXAS INSTRUMENTS TI-1795 MINI DESKTOP CALCULATOR</b> <b>QUICK REFERENCE GUIDE</b> 	<p><b><a href="#">Texas Instruments TI-1795 Mini Desktop Calculator Quick Reference Guide</a></b></p> <p>A comprehensive quick reference guide for the Texas Instruments TI-1795 Mini Desktop Calculator, covering its features, operations, and troubleshooting.</p>

