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Texas Instruments TI-84 Plus CE

Texas Instruments TI-84 Plus CE Color Graphing Calculator User Manual

Model: TI-84 Plus CE

Introduction

The Texas Instruments TI-84 Plus CE Color Graphing Calculator is a powerful tool designed to enhance the comprehension of math and science topics from middle school through college. Featuring a high-resolution, full-color backlit display, it simplifies complex calculations and graphing functions. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your calculator.

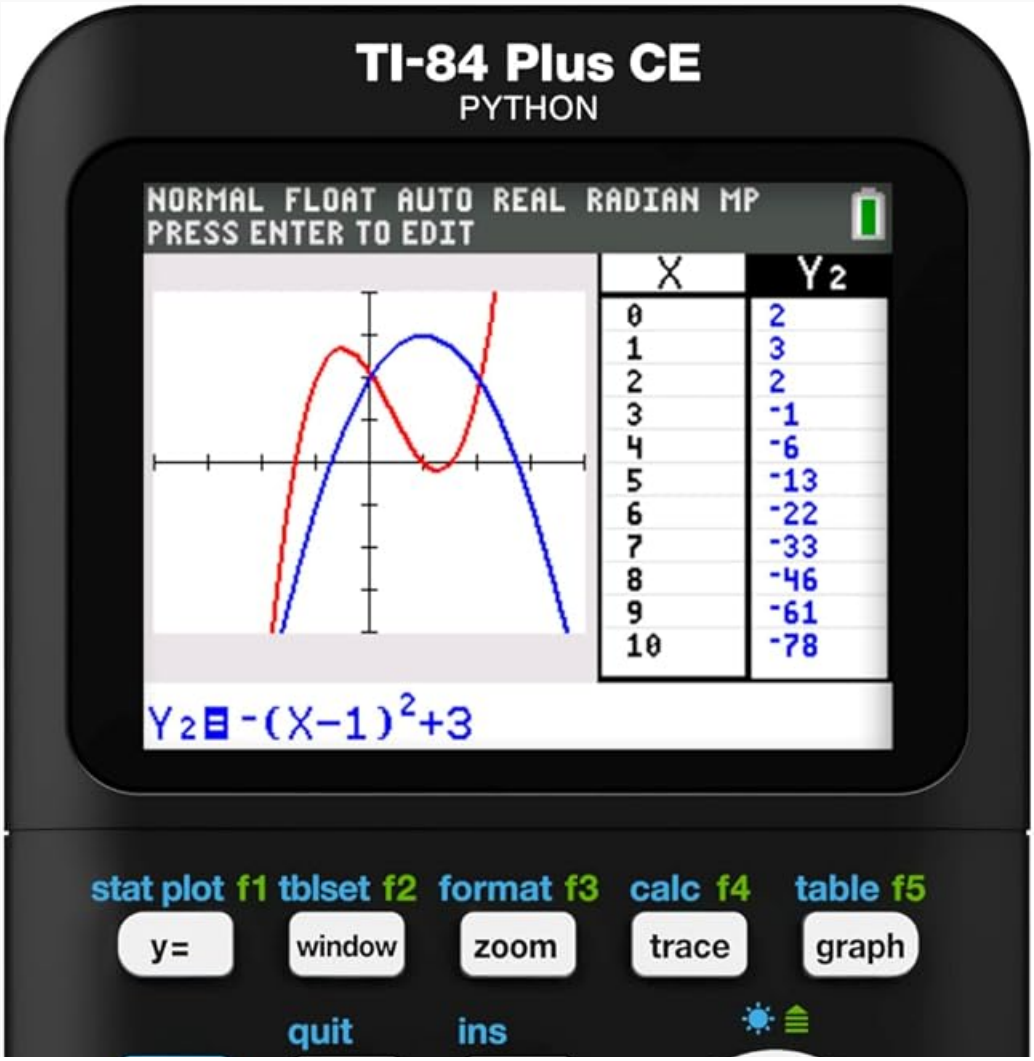




Figure 1: Texas Instruments TI-84 Plus CE Color Graphing Calculator

Key Features

The TI-84 Plus CE is equipped with several features to support advanced mathematical and scientific studies:

- High-resolution, full-color backlit display for clear visualization.
- Horizontal and vertical split-screen options for multi-view analysis.
- Rechargeable battery for convenience and extended use.
- Preloaded apps and images to assist with various subjects.
- Fourteen interactive zoom features for detailed graph exploration.
- MathPrint feature for displaying equations and fractions as they appear in textbooks.
- Seven different graph styles for differentiating the look of each graph drawn.
- Compatible with CBR 2 motion sensor for data collection.
- Lightweight and durable design suitable for classroom use.

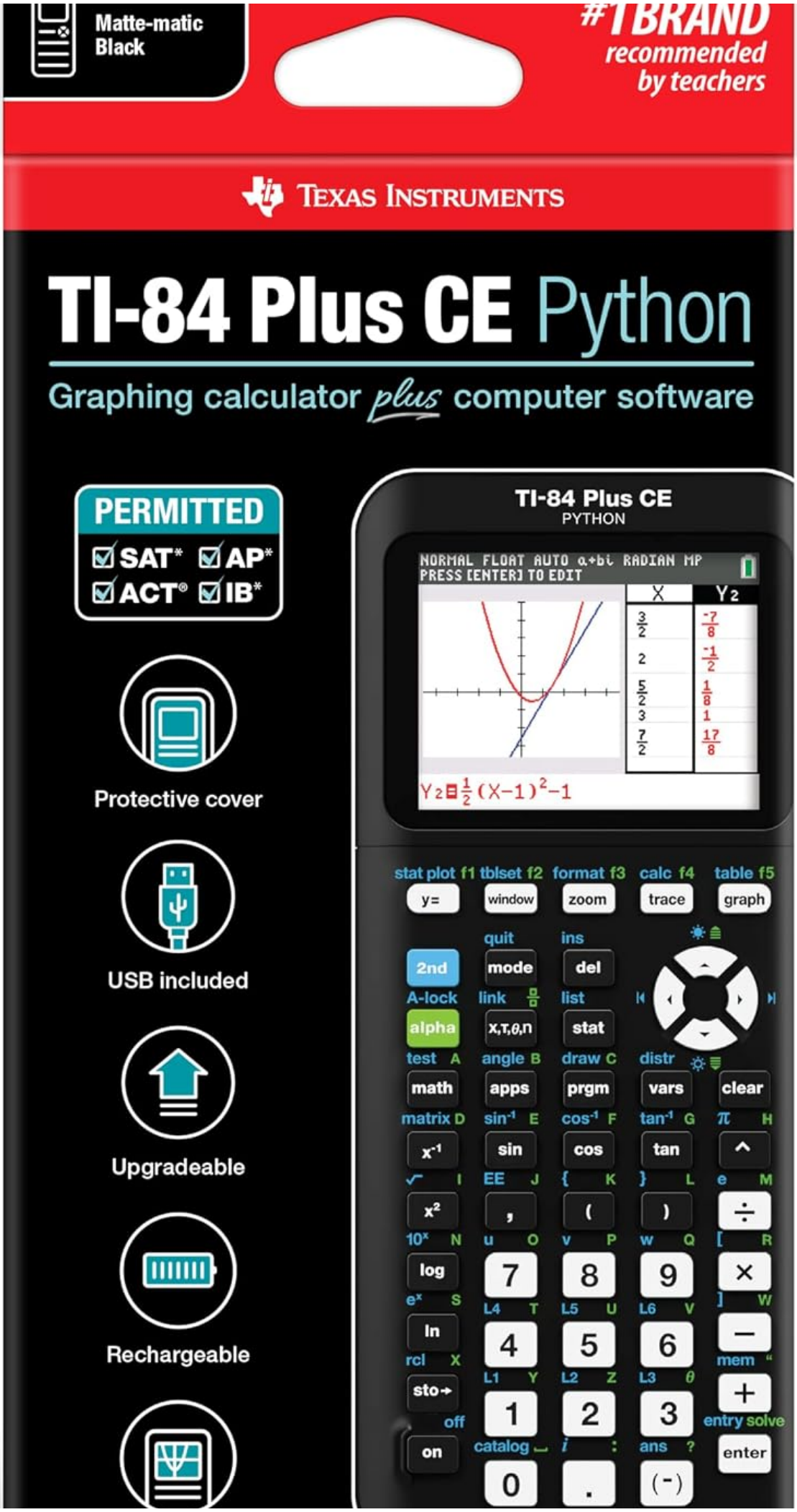

Matte-matic Black
#1 BRAND recommended by teachers
Texas Instruments
TI-84 Plus CE Python
Graphing calculator plus computer software
PERMITTED
SAT* AP*
ACT® IB*
Protective cover
USB included
Upgradeable
Rechargeable
TI-84 Plus CE
PYTHON
NORMAL FLOAT AUTO a+bi RADIAN MP
PRESS [ENTER] TO EDIT
X
Y2
Y2=½(X−1)²−1
stat plot f1 tblset f2 format f3 calc f4 table f5
y= window zoom trace graph
quit ins
2nd mode del
A-lock link list
alpha X,T,θ,n stat
test A angle B draw C distr
math apps prgm vars clear
matrix D sin⁻¹ E cos⁻¹ F tan⁻¹ G π H
x⁻¹ sin cos tan
√ I EE J { K } L e M
x² , ( ) ÷
10ˣ N u O v P w Q [R
log 7 8 9 ×
eˣ S L4 T L5 U L6 V] W
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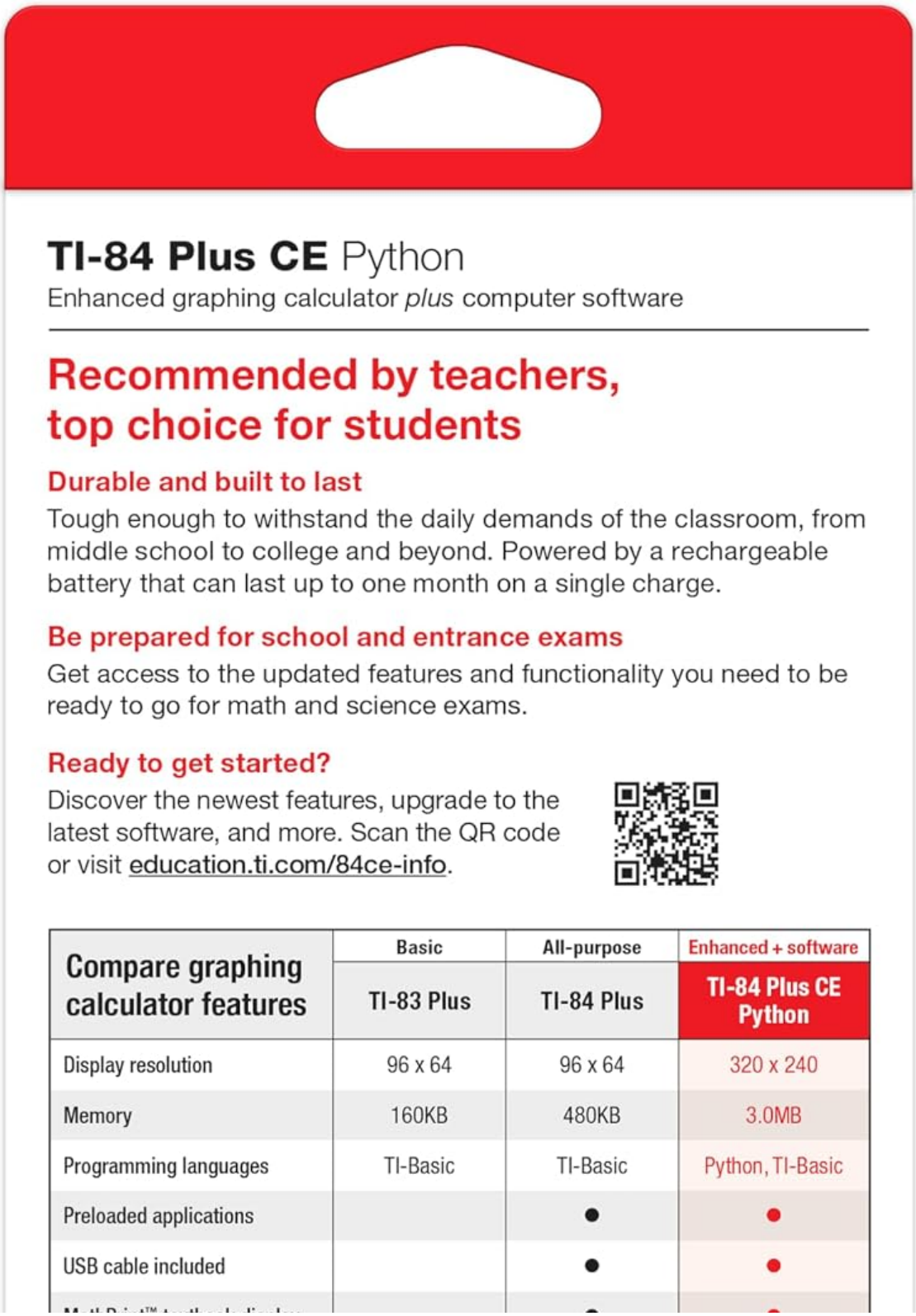


Figure 2: Product packaging highlighting key features

Setup

Initial Charge

Before first use, fully charge your TI-84 Plus CE calculator. Connect the included USB cable to the charging port on the side of the calculator and plug the other end into a compatible USB power adapter or computer USB port. A full charge typically takes approximately 4 hours.



TI-84 Plus CE Python

Enhanced graphing calculator *plus* computer software

Recommended by teachers, top choice for students

Durable and built to last

Tough enough to withstand the daily demands of the classroom, from middle school to college and beyond. Powered by a rechargeable battery that can last up to one month on a single charge.

Be prepared for school and entrance exams

Get access to the updated features and functionality you need to be ready to go for math and science exams.

Ready to get started?

Discover the newest features, upgrade to the latest software, and more. Scan the QR code or visit education.ti.com/84ce-info.

Compare graphing calculator features	Basic	All-purpose	Enhanced + software
	TI-83 Plus	TI-84 Plus	TI-84 Plus CE Python
Display resolution	96 x 64	96 x 64	320 x 240
Memory	160KB	480KB	3.0MB
Programming languages	TI-Basic	TI-Basic	Python, TI-Basic
Preloaded applications		●	●
USB cable included		●	●

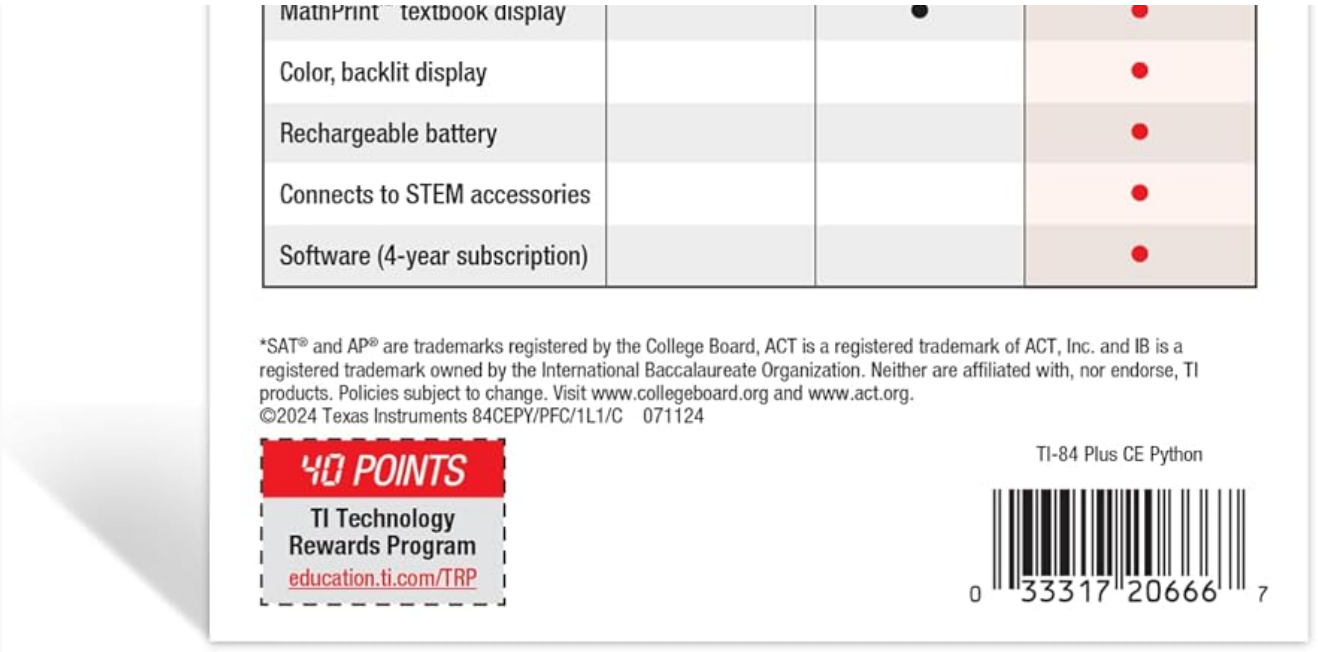


Figure 3: Charging port location

Power On/Off

To turn on the calculator, press the **ON** button located at the bottom left of the keypad. To turn off the calculator, press **2nd** then **ON** (which functions as **OFF**).

Operating Instructions

Basic Calculations

Perform basic arithmetic operations using the number keys and operation symbols (+, -, ×, ÷). Press **ENTER** to execute the calculation. For example, to calculate 5 + 3, press **5 + 3 ENTER**.

Graphing Functions

To graph a function:

1. Press **Y=** to access the function editor.
2. Enter your desired function (e.g., **X ^ 2** for $y=x^2$).
3. Press **GRAPH** to display the graph.

Use the **WINDOW** button to adjust the viewing window (Xmin, Xmax, Ymin, Ymax) and the **ZOOM** button for quick adjustments or specific zoom functions.

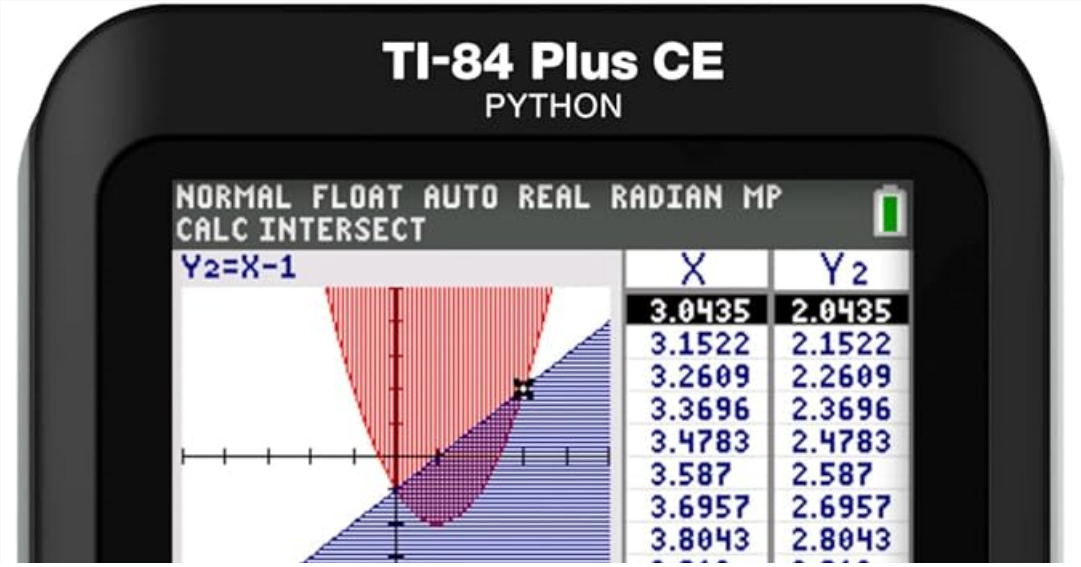




Figure 4: Calculator displaying a graph




NORMAL FLOAT AUTO REAL RADIAN MP
PRESS ENTER TO EDIT
X Y2
0 2
1 3
2 2
3 -1
4 -6
5 -13
6 -22
7 -33
8 -46
9 -61
10 -78
Y2=-(X-1)^2+3
stat plot f1 tblset f2 format f3 calc f4 table f5
y= window zoom trace graph
quit ins
2nd mode del
A-lock link list
alpha X,T,θ,n stat
test A angle B draw C distr
math apps prgm vars clear
matrix D sin-1 E cos-1 F tan-1 G π H
x-1 sin cos tan ^
√ I EE J { K } L e M
x2 , ( ) ÷
10x N u O v P w Q [R
log 7 8 9 ×
ex S L4 T L5 U L6 V] W
ln 4 5 6 −
rcl X mem "
sto→ L1 Y L2 Z L3 θ +
off 1 2 3 entry solve
on catalog _ i : ans ? enter
0 . (-)



Figure 5: Side view of the calculator

Maintenance

Cleaning

To clean your calculator, use a soft, dry cloth. For stubborn smudges, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or solvents, as these can damage the screen or casing.

Battery Care

The TI-84 Plus CE uses a rechargeable Lithium Metal battery. To maximize battery life, avoid fully discharging the battery frequently. Charge the calculator regularly, especially if it will be stored for an extended period. Store the calculator in a cool, dry place away from extreme temperatures.





Figure 6: Back view of the calculator

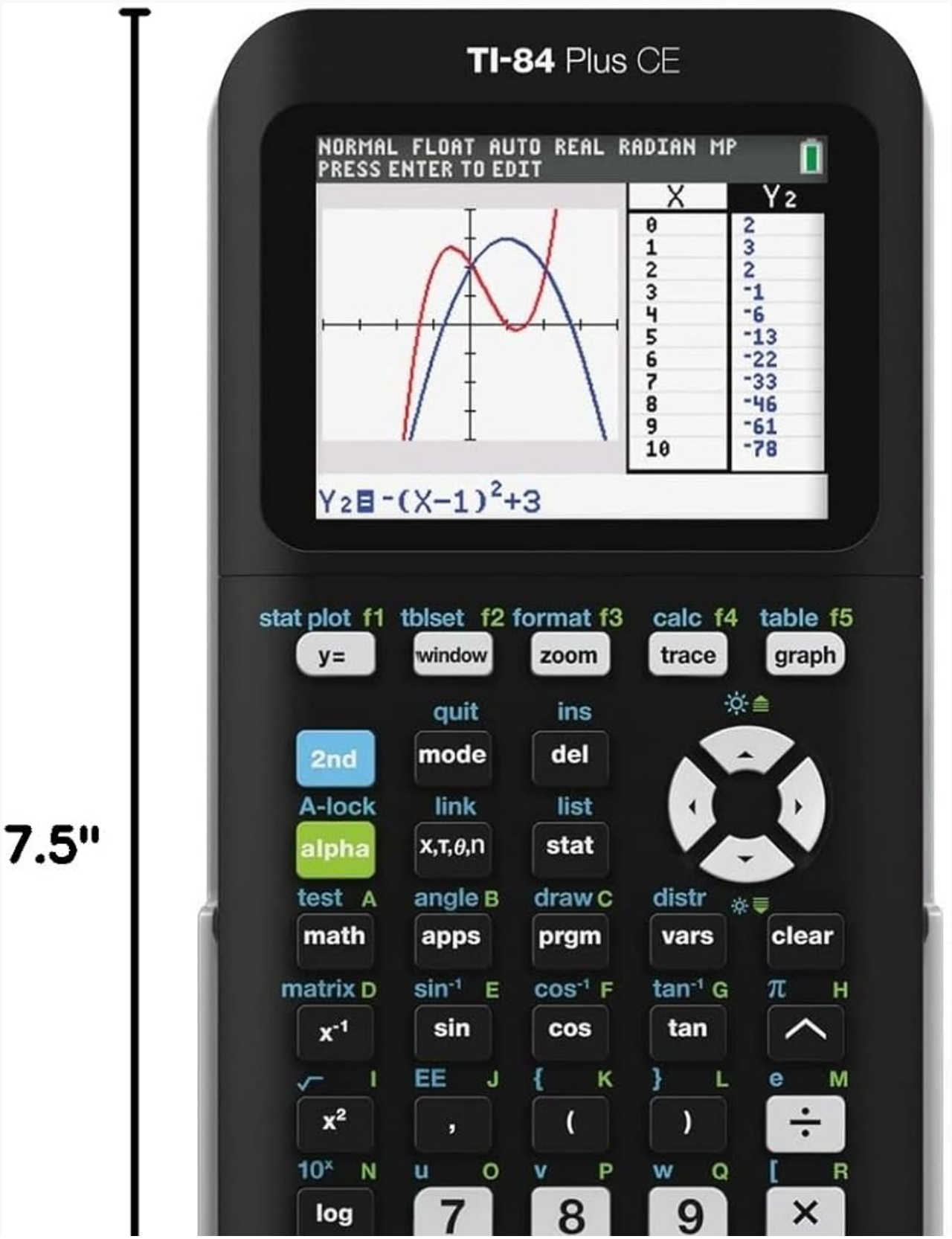
Troubleshooting

- **Calculator does not turn on:** Ensure the battery is charged. Connect the calculator to a power source and allow it to charge for at least 30 minutes before attempting to turn it on again.
- **Screen is blank or dim:** Adjust the display contrast by pressing **2nd** then the **+** or **-** keys. If the screen remains blank, try recharging the battery.
- **Calculator freezes:** Press and hold the **ON** button for several seconds to perform a soft reset. If this does not work, locate the small reset button on the back of the calculator (often requiring a paperclip to press) and press it. Note that a hard reset may clear memory.
- **Error messages:** Refer to the detailed user guide for specific error code explanations and solutions.

Specifications

Attribute	Value
Product Dimensions	7.57 x 3.4 x 0.1 inches
Item Weight	7 ounces
Item Model Number	84PLCE/TBL/1L1/AH
Batteries	1 Lithium Metal batteries required (included)
Manufacturer	Texas Instruments

Attribute	Value
Color	Black
Calculator Type	Graphing
Power Source	Battery Powered
Screen Size	3.2 Inches
Visible Screen Diagonal	4" / 9 cm



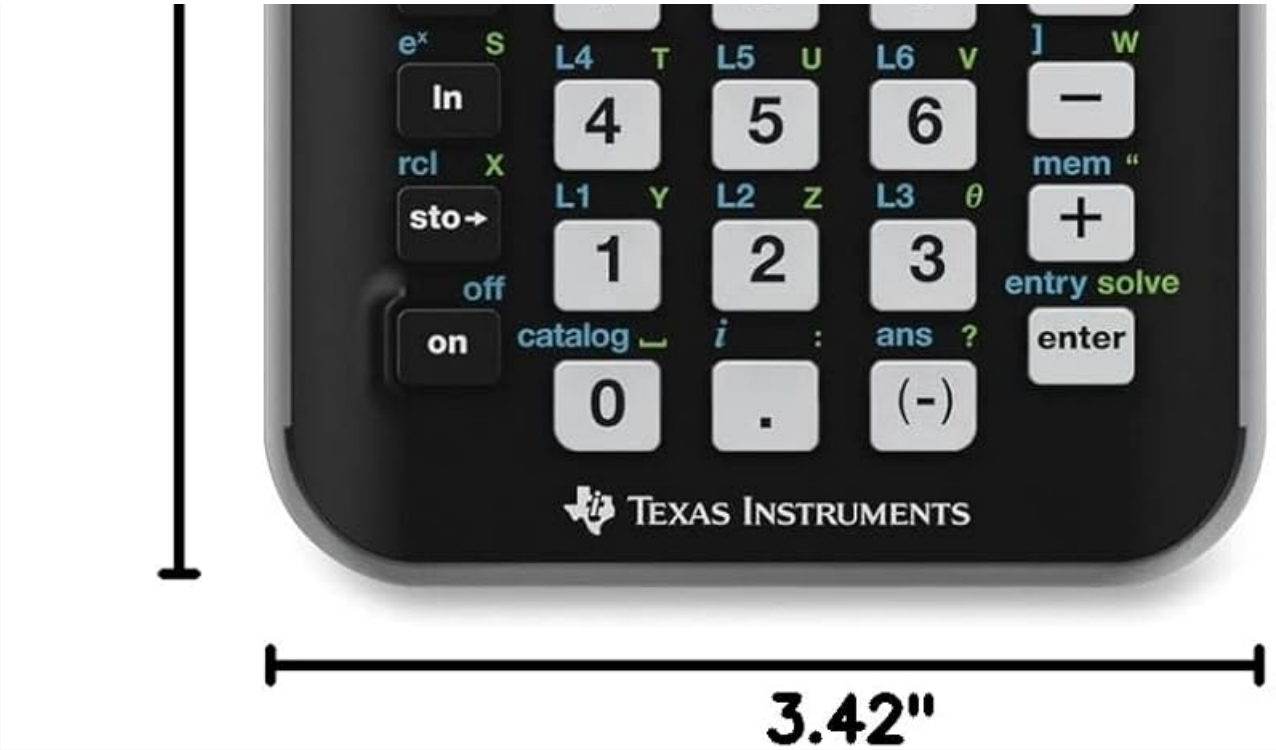


Figure 7: Calculator dimensions

Warranty and Support

For detailed warranty information and comprehensive support, please refer to the official Texas Instruments resources. The manufacturer provides extensive online documentation and customer service to assist with any product-related inquiries.

You can download the full user guide in PDF format here:TI-84 Plus CE User Guide (PDF)

For the latest updates, software, and additional resources, visit the official Texas Instruments education website: education.ti.com/84CE-info

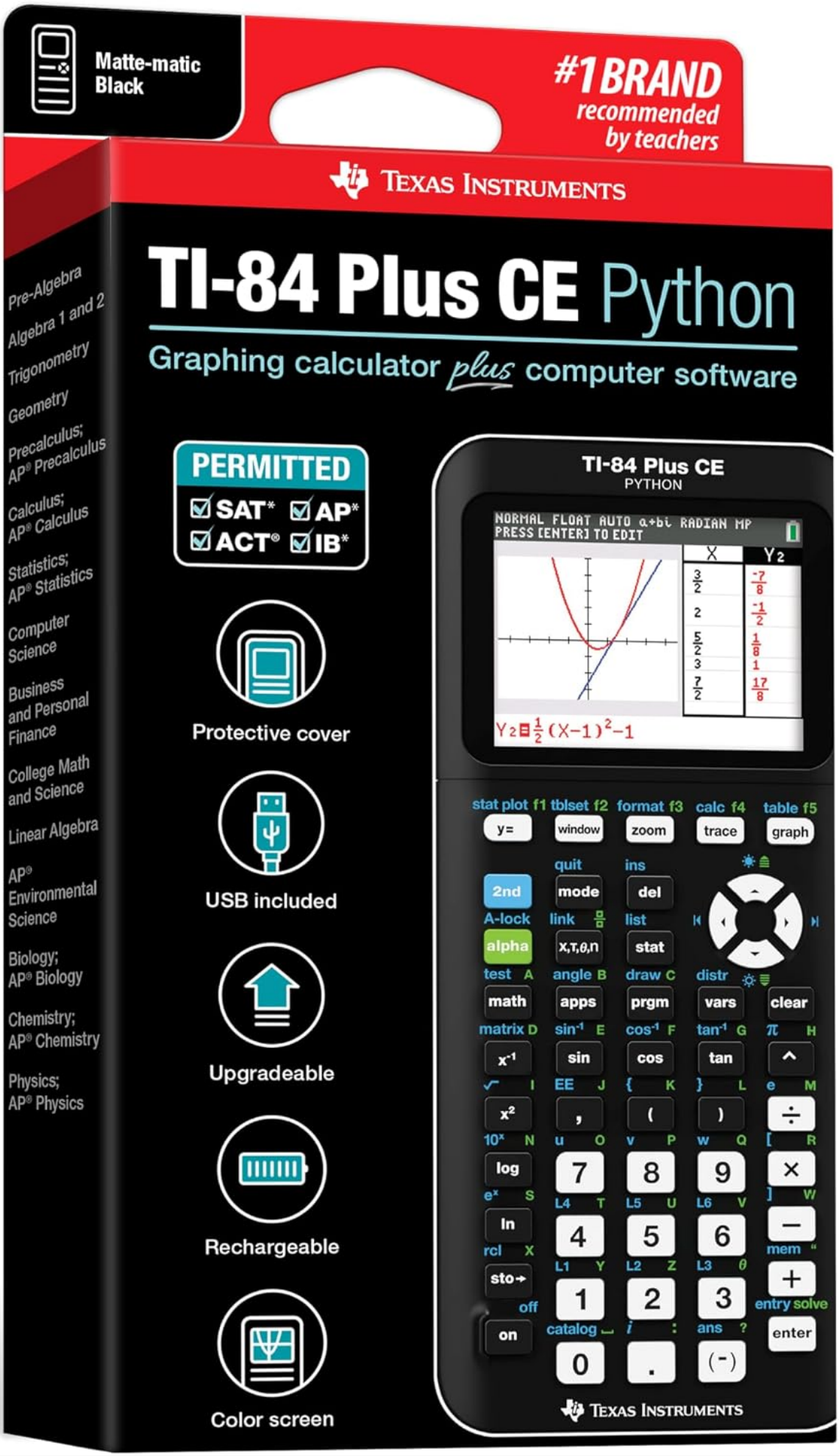


Figure 8: Back of packaging with support information

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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