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Texas Instruments TI82AD

Texas Instruments TI-82 Advanced Graphing Calculator

Model: TI82AD

INTRODUCTION

The Texas Instruments TI-82 Advanced Graphing Calculator is a powerful tool designed for students and professionals requiring advanced mathematical and graphing capabilities. It features a clear display, intuitive interface, and a comprehensive set of functions suitable for algebra, calculus, statistics, and more. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your TI-82 Advanced calculator.



Image: Front view of the TI-82 Advanced Graphing Calculator, displaying mathematical expressions on its screen.

WHAT'S IN THE BOX

Upon opening the packaging, ensure all the following items are present:

- Texas Instruments TI-82 Advanced Graphing Calculator
- 4 AAA Batteries (pre-installed or included separately)
- USB Cable (for connectivity)
- Quick Start Guide (may vary by region)

Texas Instruments

TI-82 Advanced

Lycée
professionnel

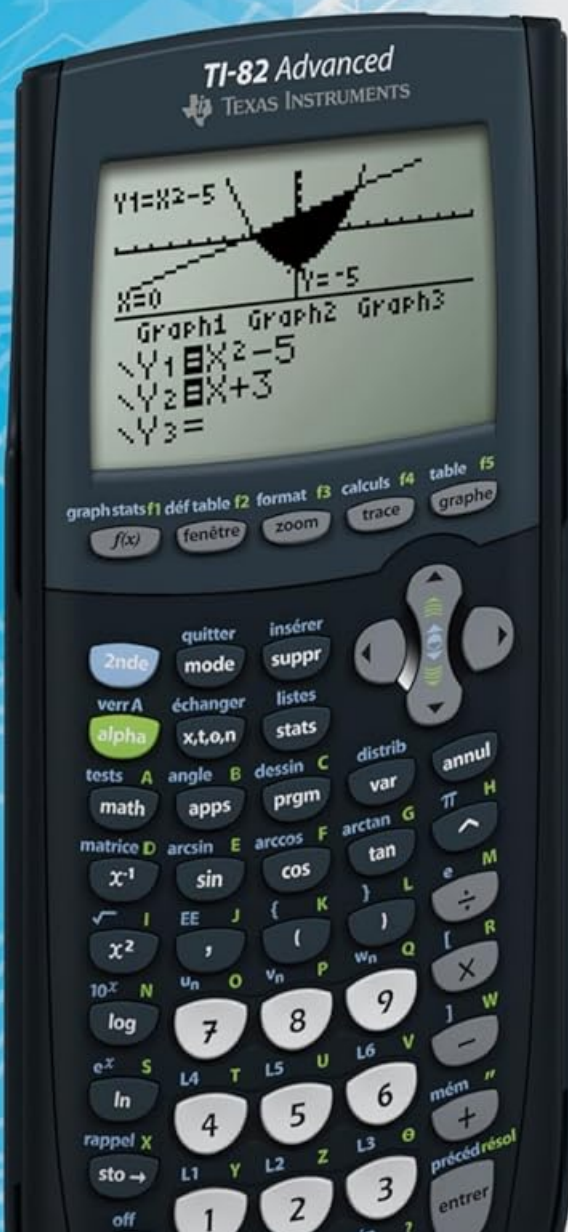




Image: The TI-82 Advanced Graphing Calculator shown within its retail packaging.

SETUP

Battery Installation

1. Locate the battery compartment cover on the back of the calculator.
2. Slide the cover off in the direction indicated by the arrow.
3. Insert four AAA batteries, ensuring correct polarity (+ and - ends match the diagram inside the compartment).
4. Replace the battery compartment cover, sliding it until it clicks securely into place.

Initial Power On

Press the **ON** key located at the bottom left of the keypad to turn on the calculator. The screen should display the home screen or a previous calculation. To turn off the calculator, press **2nd** then **OFF** (located above the ON key).

OPERATING INSTRUCTIONS

Basic Key Functions

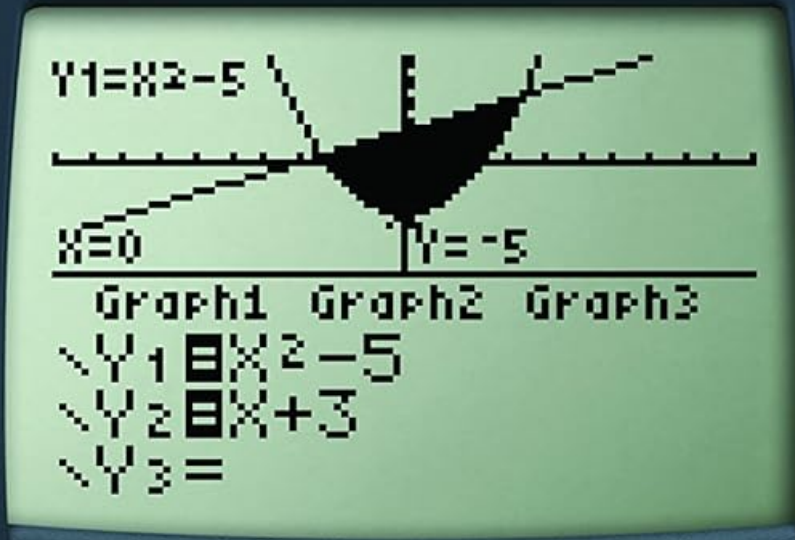
- **ON/OFF**: Powers the calculator on or off (with 2nd).
- **2nd**: Accesses the secondary function printed above each key in blue.
- **ALPHA**: Accesses the alphabetic characters printed above each key in green.
- **ENTER**: Executes commands or completes calculations.
- **Arrow Keys**: Navigate menus, graphs, and edit entries.
- **Number Keys (0-9)**: Input numerical values.
- **Operation Keys (+, -, *, /)** Perform basic arithmetic operations.

Graphing Functions

The TI-82 Advanced allows you to visualize mathematical functions. To graph a function:

1. Press the **Y=** key to access the function editor.
2. Enter your desired function (e.g., $X^2 - 5$) next to $Y1=$.
3. Press **GRAPH** to display the graph.
4. Use **WINDOW** to adjust the viewing window (Xmin, Xmax, Ymin, Ymax).
5. Press **TRACE** to move along the graph and see coordinate values.





graph stats **f1** déf table **f2** format **f3** calculs **f4** table **f5**
f(x) fenêtre zoom trace graphe

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Image: The TI-82 Advanced calculator displaying a quadratic function and a linear function on its graphing screen.

Calculations

To perform calculations, ensure you are on the home screen (press **2nd** then **MODE** to select QUIT). Enter your expression and press **ENTER**.

- **Basic Arithmetic:** Enter numbers and operators (e.g., $5 + 3 * 2$).
- **Scientific Functions:** Use keys like **SIN**, **COS**, **TAN**, **LOG**, **LN**. For inverse functions, use **2nd** with these keys.
- **Powers and Roots:** Use **^** for powers (e.g., 2^3) and **2nd x^2** for square roots.

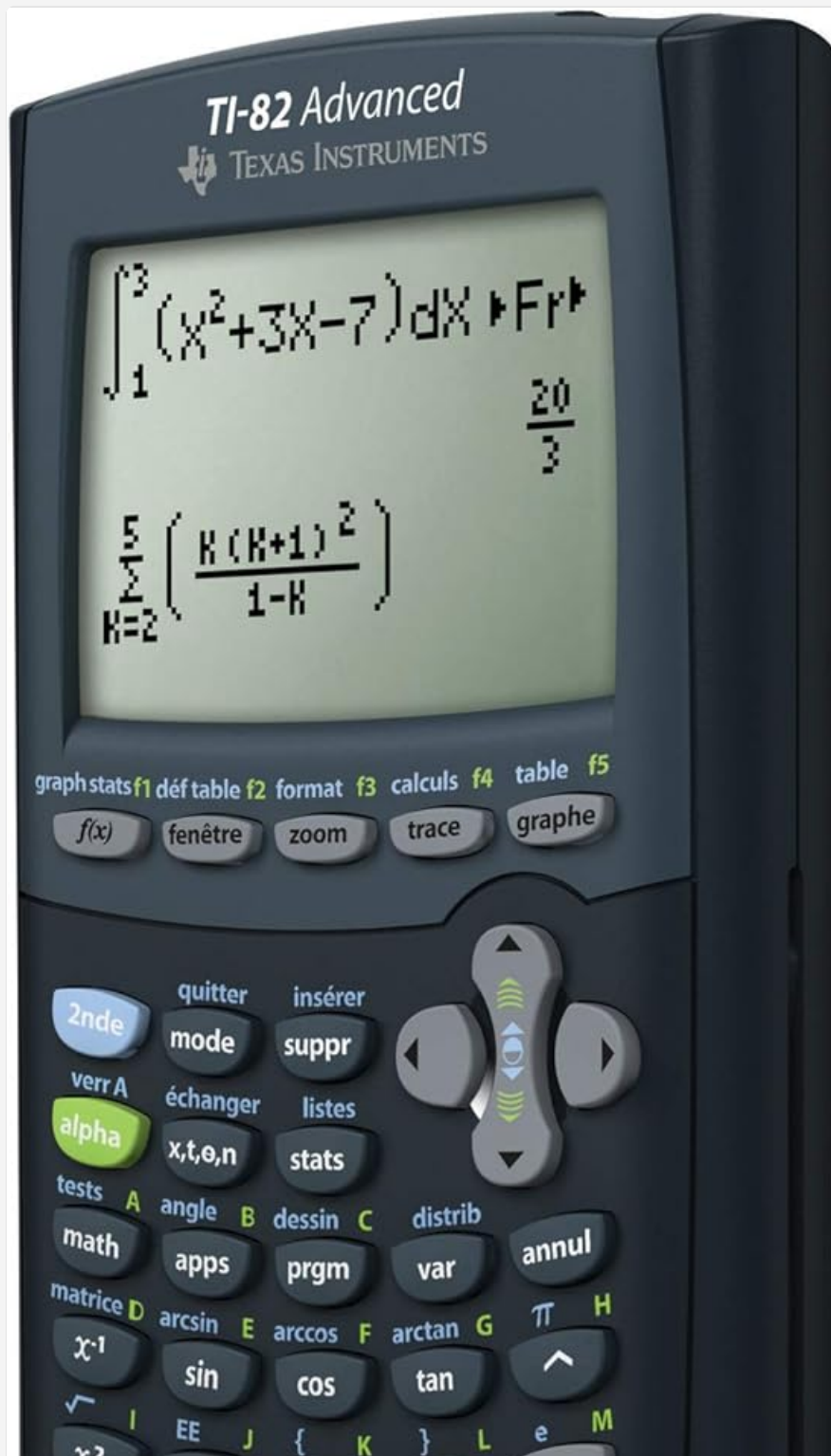




Image: A detailed view of the TI-82 Advanced calculator, highlighting the keypad layout and screen display.

Exam Mode

The TI-82 Advanced features an Exam Mode, designed to restrict certain functionalities during standardized tests. Consult your exam administrator or specific exam guidelines for instructions on activating and deactivating this mode, as well as permitted calculator features.

MAINTENANCE

Cleaning

To clean your calculator, use a soft, dry cloth. For stubborn marks, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or excessive moisture, as these can damage the calculator's screen or internal components.

Battery Replacement

When the screen dims or the calculator behaves erratically, it may be time to replace the batteries. Follow the battery installation steps outlined in the "Setup" section. Always replace all four AAA batteries at the same time with new ones to ensure optimal performance.

Storage

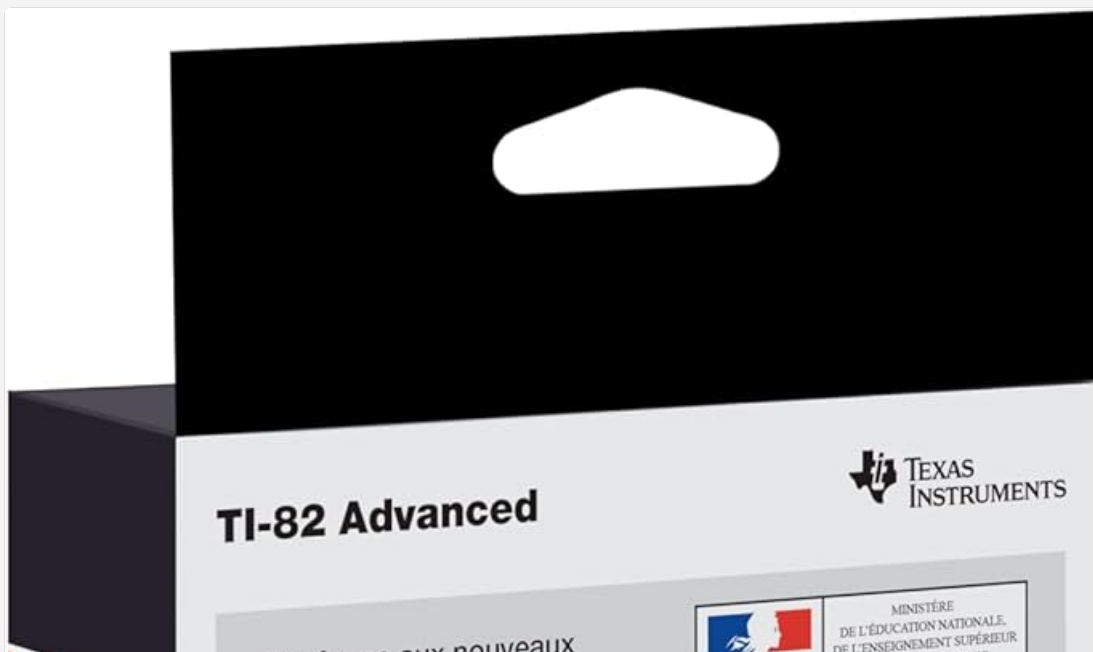
Store your calculator in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. If storing for an extended period (several months or more), it is recommended to remove the batteries to prevent leakage and potential damage to the calculator.

TROUBLESHOOTING

Problem	Possible Cause / Solution
Calculator does not turn on.	Check battery installation and polarity. Replace with fresh AAA batteries. Ensure the battery compartment cover is securely closed.
Screen is dim or blank.	Batteries are low; replace them. Adjust screen contrast (refer to calculator's on-screen menu or quick guide).
Calculator freezes or behaves erratically.	Try pressing the ON key. Remove and reinsert batteries to perform a hard reset (this will clear memory). Ensure no keys are stuck.
Incorrect calculation results.	Verify the input expression for accuracy. Check the calculator's mode settings (e.g., Degree/Radian mode for trigonometry). Clear previous entries or variables if they are interfering.

SPECIFICATIONS

- **Model Number:** TI82AD
- **Dimensions (L x W x H):** 10.63 x 7.48 x 1.69 inches
- **Weight:** 8.6 ounces
- **Power Source:** 4 x AAA Batteries (included)
- **Screen Type:** Monochrome LCD
- **Screen Size (Diagonal):** Approximately 2.8 inches (7.1 cm) / Visible screen diagonal: 3 inches (8 cm)
- **Calculator Type:** Graphing Calculator
- **Color:** Black
- **Connectivity:** USB (cable included)



The Texas Instruments TI-82 Advanced Graphing Calculator comes with a **3-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, product information, or warranty service, please visit the official Texas Instruments website or contact their customer support. Refer to the packaging or the Texas Instruments website for the most current contact information and support resources.

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