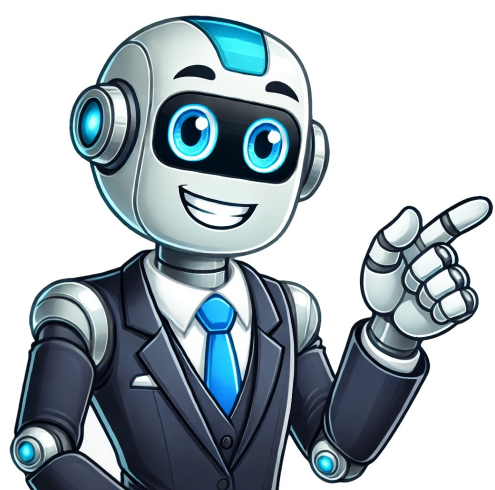


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TI-30XS MultiView and TI-30XB MultiView Scientific Calculator Important information ..... 2 Examples ..... 3 Switching the TI-30XS MultiView calculator on and off ..... 3 Display contrast ..... 3 Home screen ..... 31 Probability

4 2nd functions ..... Constant ..... 36 Function table ..... Examples Each section is followed by instructions for keystroke examples that demonstrate the TI-30XS MultiView and TI-30XB MultiView functions. All references in this manual will refer to the TI-30XS MultiView, but are also applicable for the TI-30XB MultiView. Examples assume all default settings, as shown in the Modes section. For more activities and examples, see the TI-30XS MultiView Teacher Guide available at education.ti.com/guides. Home screen On the Home screen, you can enter mathematical expressions and functions, along with other instructions. The answers are displayed on the Home screen. The TI-30XS MultiView screen can display a maximum of four lines with a maximum of 16 characters per line. For entries and expressions of more than 16 characters, you can scroll left and right (and  $\uparrow$ ) to view the entire entry or expression. An entry on one menu displays below 16 digits. Press  $\uparrow$  on  $\rightarrow$  to scroll. 2nd functions % Most keys can perform two functions. The primary function is indicated on the key and the secondary function is displayed above it. Press % to activate the secondary function of a given key. Notice that 2nd appears as an indicator on the screen. To cancel it before entering data, press % again. For example, % b 25 < calculates the square root of 25 and returns the result, 5. Modes p Use top choose modes.Note: In some restricted environments (for example function table, data editor, and the % menu), the TI-30XS MultiView calculator may display E instead of 10n. ENG displays results as a number from 1 to 999 times 10 to an integer power. The integer power is always a multiple of 3. Note: C is a shortcut key to enter a number in scientific notation format. The result displays in the numeric notation format set in mode. FLOAT 0123456789 Sets the decimal notation mode.Fix 2 Fix 2 and answer toggle key. U n/d U n/d Exponent example Exponent example Square root example Square root example Cube root example Menus Certain keys display menus: H, %, I, v, %, %, %, and %. (Some keys may display more than one menu. Press  $\rightarrow$  and \$ to scroll and select a menu item, or press the corresponding number next to the menu item. To return to the previous screen without selecting the item, press  $\rightarrow$ . The menu chart shows the menu keys and the menus they display. PRB 1: nPr 2: nCr 3: 1 H RAND 1: rand 2: randInt( %DMS R P 1: 1: R Pr( 2: R P( 3: 3: P Rxt 4: r 4: P Ry( 5: g 6: DMS v(Press once to display the Data editor screen. Press again to display the menu.%t STATS 1: 1-Var Stats 2: 2-Var Stats 3: StatVars This menu option displays after you calculate 1-var or 2-var stats. StatVars menu 1: n 2: 3: Sx Etc. See StatVar values for full list. % Reset 1: No 2: Yes % Recall Var 1: x = 2: y = 3: z = 4: t = 5: a = 6: b = 7: c = % Clear Var 1: Yes 2: No Scrolling !"# \$ % Press ! or " to place the cursor horizontally over the expression entered. Press % 1 or % to move the cursor directly to the beginning or end of the expression.Examples Scroll 1T1 < 2T2< 3T3< 4T4< ##### 12< Answer toggle Press the n key to toggle the display result between fraction and decimal answers, exact square root and decimal, and exact pi and decimal.Last answer % The most recently calculated result is stored to the answer Ans. Ans is retained in memory, even after the TI-30XS MultiView calculator is turned off. To recall the value of Ans: Press % 1 (Ans displays on the screen), or Press any operations key (T, U, and so forth) as the first part of an entry. Ans and the operator are both displayed.5th Exponentiation (^) and roots (x). Note: In classic mode, exponentiation is evaluated from left to right. The expression 2^3^2 is evaluated as (2^3)^2, with a result of 64. In MathPrint mode, exponentiation is evaluated from right to left. The expression 2^3^2 is evaluated as 2^(3^2), with a result of 512. 6th Negation (M), 7th Permutations (nPr) and combinations (nCr), 8th Multiplication, implied multiplication, division, 9th Addition and subtraction,4D2T3E< ^ and x % b G2 T 4 G2 < Clearing and correcting - Clears an error message. Clears characters on entry line. Moves the cursor to last entry in history once display is clear. Backs up one screen in applications. J Deletes the character at the cursor. % Inserts a character at the cursor. % Clears variables x, y, z, t, a, b, and c. % 2 or && - Resets the TI-30XS MultiView calculator.The TI-30XS MultiView calculator defaults output to improper fractions. Results are automatically simplified, g enters a simple fraction. Pressing q before or after a number can result in different behavior. Entering a number before pressing q makes that number the numerator. To enter fractions with operators or radicals, press g before you enter a number (in MathPrint mode only). In MathPrint mode, press \$ between the entry of the numerator and the denominator.F D 4%N182 %< q 1 8 2 T 1 8 3 \$ 4 Examples (MathPrint < mode only) (MathPrint mode only) qM5 T%b5 FUA D 1 ED 6 ES2 D 1 E< Percentages % %R To perform a calculation involving a percentage, press % after entering the value of the percentage. To express a value as a percentage, press %R after the value. Example 2 % V 150 < 1 q 5 % R < Problem A mining company extracts 500 tons of ore with a concentration of metal of 3% and 7300 tons with a concentration of 2.3%.T 2 8 3 % V 7300 < V 280 < The two extractions represent a total of 317.9 tons of metal for a total value of 89012 dollars. x10n key C C is a shortcut key to enter a number in scientific notation format. Example 2 C5 < p \*8< < Powers, roots and inverses F Calculates the square of a value. The TI-30XS MultiView calculator evaluates expressions entered with F and a from left to right in both Classic and MathPrint modes. G Raises a value to the power of 10012. % Calculates the nth root of any positive value and any odd integer root of a negative value. Gives the inverse of a value: 1/x. The TI-30XS MultiView calculator evaluates expressions entered with F and a from left to right in both Classic and MathPrint modes. Examples 5G2 T4G2DT1E < 10 G M 2 < %b 49 < %b 3 G 2 T 2 G 4 < c % 64 < 2a< P i q = 3.14159265359 for calculations. = 3.141592654 for display.Example 2Vg < n Problem What is the area of a circle if the radius is 12 cm? Reminder: A = r^2, q V 12 G 2 < n The area of the circle is 144 square cm. The area of the circle is approximately 452.4 square cm when rounded to one decimal place. Angle menu %! displays the choice of two submenus that enable you to specify the angle unit modifier as degrees (D), minutes (M), seconds (S); radian (r); gradian (g), or convert units using DMS.Examples RAD p^< > 3 0 % 1 E< DEG p< > 3 0 % 1 E< 4DMSS 1 8 5 % 6 < Problem Two adjacent angles measure 12 31 45 and 26 54 38 respectively. Add the two angles and display the result in DMS format. Round the results to two decimal places.% 6 < The result is 39 degrees, 26 minutes and 23 seconds. Problem It is known that 30 = p / 6 radians. In the default mode, degrees, find the sine of 30. Then set the calculator to radian mode and calculate the sine of p / 6 radians. Note: Press - to clear the screen between problems.-> 30 E< p ^ q 6 % E< Retain radian mode on the calculator and calculate the sine of 30. Change the calculator to degree mode and find the sine of p / 6 radians.Example Convert polar coordinates (r, q)=(5, 30) into rectangular coordinates. Then convert rectangular coordinates (x, y) = (3, 4) into polar coordinates. Round the results to one decimal place. R P p 5 % E< %I^3 3 % 30 E< %I^4 5 % 30 E< %I^3 1 % 4 E< %I^2 3 % 4 E< Converting (r, q) = (5, 30) gives (x, y) = (4.3, 2.5) and (x, y) = (3, 4) gives (r, q) = (5.0, 53.1). Trigonometry >%E2I Enter trigonometric functions (sin, cos, tan, sin-1, cos-1, tan-1), just as you would write them.Example Radian Mode Tan p % 7 q 3 E< 90 U%< % 3 E< T To one decimal place, the measure of angle A is 66.8, the measure of angle B is 23.2, and the length of the hypotenuse is 7.6 meters. Hyperbolic %Y %Y displays the HYP function and accesses the hyperbolic function of the next trigonometry key that you press. Angle modes Do not affect hyperbolic calculations. Logarithm and exponential functions A B % % A yields the common logarithm of a number. B yields the logarithm of a number to the base e (e 2.819291929). % 1 raises 10 to the power you specify. % ^ raises e to the power you specify. Examples LOG A E < LN B1 5E2< 10 x %!A2E< A% 1 5 ^ E < x % ^ 85 < Constant %! 1 turns Constant feature on and lets you define a constant. To store an operation to K and recall it: 1. Press % 1. 2.4. Each subsequent time you press Problem Given the function y = 5x 2, calculate y for the following values of x: -5; -1. %Y5 U 2 < M5< M1< %Y Memory and stored variables Z L % % (The TI-30XS MultiView calculator has 7 memory variables, x, y, z, t, a, b, and c. You can store a real number or an expression that results in a real number to a memory variable. L Lets you store values to variables. Press L to store a variable, and press z to select the variable to store. Press < to store the value in the selected variable.% h recalls the values of variables. Press % h to display a menu of variables and their stored values. Select the variable you want to recall and press For the first excavation: The company needs to extract 29.4 million cubic meters to reach a depth of 150 meters, and to extract 41.16 million cubic meters to reach a depth of 210 meters. For the second excavation: The company needs to extract 31.11 million cubic meters to reach a depth of 150 meters, and to extract 43.554 million cubic meters to reach a depth of 210 meters. Data editor and list formulas v Lets you enter data in up to 3 lists. Each list can contain up to 42 items.Note L2 is calculated per the formula you entered, and L2(1)= in the author line is highlighted to indicate the list is the result of a formula. Problem On a Number key, a weather report on the Internet lists the following temperatures. Paris, France 9C Moscow, Russia -1C Montreal, Canada 4C Convert these temperatures from degrees Celsius to degrees Fahrenheit.T Sydney, Australia is 21C. Find the temperature in degrees Fahrenheit. \$5521 Statistics %A % 1 displays a menu with the following options: 1-Var Stats analyzes statistical data from 1 data set with 1 measured variable. x 2-Var Stats analyzes paired data with 2 measured variables, the independent variable, and y, the dependent variable. StatVars displays a secondary menu of statistical variables. The StatVars menu only appears after you have calculated 1-Var or 2-Var stats.y (2-Var) Uses a and b to calculate predicted y value when you input an x value. MinX Minimum of x values. Q1 (1-Var) Median of the elements between MinX and Med (1st quartile). Med Median of all data points. Q3 (1-Var) Median of the elements between Med and MaxX (3rd quartile). MaxX Maximum of x values. To define statistical data points: 1. Enter data in L1, L2, or L3. (See Data Editor.) 2. Press % Select 1-Var or 2-Var and press Stat Var 2< V2< 2-Var: Data: (45,30), (55,25). Find: x(45) Clear all data v \$\$\$ Data: 1. 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