HP-42S Quick Reference Guide

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Using Menus

A menu redefines the top row of keys by displaying a menu label above each key. If the current menu has more than six labels, $\forall \blacktriangle$ is displayed indicating that the $\boxed{\mathbf{v}}$ and $\boxed{\bigstar}$ keys can be used to display the additional rows of the menu.

Application Menus

BASE MATRIX SOLVER STAT (*f***(x)**) When you select an application menu, all other menus are automatically exited. Within an application, you can select and use any function menu (below).

Function Menus

CATALOG CLEAR CONVERT CUSTOM DISP FLAGS MODES PGM.FCN PRINT PROB TOP.FCN

Function menus (except for CUSTOM) automatically exit as soon as you press a menu key. To prevent automatic exiting, select the menu twice.

Memory

The Stack

The stack is a workspace for calculations. Each stack register may contain any type of data.

Т	
Ζ	
Y	
X	

Last X

The Alpha Register

Up to 44 characters

Flags (00-99)

Listed on the back cover

Available Memory

The HP-42S has 8,192 bytes of RAM. After initializing the items in system memory (such as the stack, the Alpha register, and the flags), there's about 7,200 bytes available for your programs and variables. The storage register matrix (*RECS*) occupies part of this user memory.

CATALOG MEM displays the amount of unused memory. To increase available memory, use the CLP (*clear program*) and CLV (*clear variable*) functions to clear items that are no longer needed.

Variables

A variable is a named storage location that may contain any type of data. For example, to store a copy of the X-register into a new variable named *ABC*, press:

STO ENTER ABC ENTER

Variable names can be up to seven characters long.

Note: the variable name *REGS* is reserved for the storage register matrix (shown on the next page).

When you execute a function that accesses a variable, the calculator automatically displays a menu of existing variable names for you to choose from. For example, to recall the contents of *ABC*, press:

RCL ABC

Storage Registers (REGS)

Each storage register is an element in the matrix *REGS*.

STO *nn* stores a copy of the X-register into register *nn*.

RCL *nn* recalls the contents of a storage register into X.

Initially, there are 25 storage registers; numbered 00 through 24. Use the SIZE function (in the MODES menu) to change the number of storage registers.

To access registers numbered greater than 99, you must use indirect addressing (see page 7).

Before storing a complex number into a storage register, the entire *REGS* matrix must be complex.

Roo	
R01	
R02	
R03	
R04	
R05	
R06	
R07	
R08	
R09	
R10	
R11	Σx
R12	Σx^2
R13	Σу
R14	Σy^2
R15	Σxy
R16	n
R17	Σ ln x
R18	$\sum (\ln x)^2$
R19	Σlny
R20	$\Sigma (\ln y)^2$
R21	$\Sigma \ln x \ln y$
R22	$\Sigma x \ln y$
R23	$\Sigma y \ln x$
R24	

To make *RECS* complex, press: 0 [ENTER] COMPLEX STO + REGS To convert *RECS* back to a real matrix, press: [RCL] REGS COMPLEX [x2y] STO] REGS

Data Types

Real Numbers

Real numbers are the simplest type of data. For example, any number you key into the calculator is a real number.

Complex Numbers

A complex number consists of two real numbers combined to represent a real and imaginary part:

3.16 -i4.12 (*Rectangular* coordinate mode) Or, a magnitude and angle:

5.19 ∠-52.51 (*Polar* coordinate mode) In Polar mode, complex numbers are automatically normalized so that magnitudes are positive and angles are not larger than 180 degrees.

Complex numbers are entered left-to-right:

left-hand-part [ENTER] right-hand-part [COMPLEX]

That is, the COMPLEX function converts two real numbers (or matrices) in the X- and Y-registers into a complex number (or matrix). If the X-register contains a complex number (or matrix), the COMPLEX function separates it into its two real components.

Alpha Strings

The Alpha register can hold up to 44 characters. Alpha strings outside the Alpha register are limited to six characters, and can be stored any place a real number can be stored.

Matrices

A matrix can be any size, limited only by the amount of available memory. Each element in a matrix holds a complete number. (See page 12.)

Modes

Angles and Coordinates (MODES):

DEG	Degrees.
RAD	Radians.
GRAD	Grads.
RECT	Rectangular coordinates.
POLAR	Polar coordinates.

Other (MODES V):

SIZE Sets the number of storage registers.
--

- QUIET Disables the beeper.
- CPXRES Complex-result enable.
- REALRES Real results only.
- KEYASN Key Assignments; for the CUSTOM menu.
- LCLBL Local Labels; for the CUSTOM menu.

Display Formats (DISP):

FIX Fixe	d-Decimal.
----------	------------

- SCI Scientific notation.
- ENG Engineering notation.
- RDX. Radix Period.
- RDX, Radix Comma.

Printing (PRINT ():PRONPrinting On (sets flags 21 and 55).PROFFPrinting Off (clears flags 21 and 55).MANManual (for printing results).NORMNormal (for printing inputs and results).TRACETrace (for printing all operations).

Additional modes are described under "Matrix Operations" and "Statistics."

Display Contrast 🕳

To darken the display: Press + while holding EXIT.

To lighten the display: Press - while holding EXIT.

Executing Functions & Programs

Any function or program can be executed with:

XEQ ENTER name ENTER

where *name* is a function name or program label. If *name* is not unique, the global label closest to the permanent end (.END.) has precedence.

If name is a local Alpha label, the calculator searches only the current program. (Local numeric labels in the current program are executed with $[\underline{XEQ} nn.)$

Short Cuts

The CUSTOM menu. CUSTOM has room for 18 assignments. Pressing a menu key in the CUSTOM menu is equivalent to using the XEQ function as described above where the characters assigned to the CUSTOM menu key take the place of *name*.

Smart Program Catalog. The XEQ function automatically displays the program catalog. Specify *name* by pressing the corresponding menu key.

Single Stepping. To execute the next single program instruction (at the current program line), press ■ SST (or ▼) if no menu is displayed).

The Run/Stop Key. Pressing [7/S] runs the current program (beginning at the current line) or stops a program after the current instruction is complete.

The Function Catalog. To display a menu containing all HP-42S functions, press **CATALOG** FCN.

Specifying Function Parameters

Numeric Parameters. Functions that accept numeric parameters prompt you with a cursor for each digit expected. For example, the STO function prompts with STO __ and accepts a two-digit register number. Page 6

To key in a numeric parameter, simply key in the digits. If you provide a digit for each cursor, the function executes. You can also provide fewer digits and complete the entry with <u>ENTER</u>.

Alpha Parameters. Many functions that accept numeric parameters also accept Alpha parameters. Often, the parameter you want is an object that already exists, so the calculator displays a menu for quick entry. If the item does not exist, use the ALPHA menu to type it. For example, to create a variable:

STO ENTER SONJA ENTER

Stack Parameters. Any function that accepts a storage register as a parameter also accepts a stack register. To specify a stack register, press the decimal key and then a menu key for the stack register. For example, to recall a copy of the Z-register:

RCL · ST Z

Indirect Addressing. Rather than providing an actual parameter, you can specify the variable or register that contains the parameter. To do this, use the same menu as for stack parameters. For example, to display the contents of the variable or register named in R12:

PGM.FCN VIEW 💽 IND 12

You can also use stack registers with indirect addressing. For example, to clear the variable whose name is in the Y-register:

CLEAR CLV . ST Y

Notice that IND is not needed because the CLV function takes only Alpha parameters (variable names).

Programming

Program-Entry

- **PRGM** toggles in or out of Program-entry mode.
- **GTO . .** moves to a new program space.
- **GTO** *nnnn* moves to line number *nnnn*.

deletes the current program line.

- **SST** moves to the next program line.*
- **BST** moves to the previous program line.*
 - (* Use **V** or **(** if no menu is displayed.)

Labels

A program label is simply a marker used to identify a program or a routine within a program.

Global labels can be accessed from anywhere in memory (and therefore should be unique). Global labels are distinguished from local labels with quotation marks (such as LBL "SAMPLE").

Local labels can be accessed only within the current program (and should be unique within the current program). There are two types of local labels:

- Numeric (LBL 00 LBL 99)
- Alpha (LBL A LBL J and LBL a LBL e)

The Do-If-True Rule

The do-if-true rule determines how program lines are executed when a conditional function is encountered. If the condition is "true," the line immediately following the conditional is *executed*. If the condition is "false," the line following the conditional is *skipped*.

Looping

The ISG and DSE functions control looping. Each accesses a variable or register containing a control

number in the form ccccccc.fffii; where ccccccc is the current counter value, fff is the final counter value, and *ii* is the increment size (default is 1). Both ISG and DSF follow a variation of the do-if-true rule: if the count is not complete, the line following the instruction 17 1.05203 is executed (usually a branch STO "COUNT" 18 to the top of the loop). For 19 LBL 01 example, this program : segment counts from 1 to 52 23 ISG "COUNT" by threes (executing the loop 24 GTO 01 18 times) and then beeps. 25 BEEP

Using a Variable Menu

A variable menu may be displayed by the Solver or Integration applications, or by the VARMENU function within a program. Each label in the menu represents a variable. While the menu is displayed, you can:

Store a value into a variable:

Key in the value and then press the menu key.

Recall the contents of a variable:

Press [RCL] and then the menu key.

View the contents of a variable without recalling it:

Press 📕 (shift) and then hold the menu key down.

Select a variable:

Press the menu key without keying in a number first. This action places the variable name in the Alpha register and continues execution.

(For the Solver, this is how you select the unknown variable. For Integration, this is how you select the variable of integration.)

You can select and use any function menu without exiting from the variable menu.

The Solver

The Solver is a root finder that allows you to solve for an unknown variable in an expression, given values for all the other variables. Expressions are written as programs. There are three parts to a Solver program:

- The program must begin with a global label.
- Immediately following the global label, **menu variables** are declared with MVAR instructions.
- Finally, the body of the program should evaluate the expression. Recall the variables as they are needed and calculate f(x) (where f(x) = 0 for your expression of one or many variables).

After entering the program, these are the steps for using the Solver:

- 1. Press SOLVER.
- 2. Select a Solver program from the menu.
- Use the variable menu to store a value into each of the known variables. Optional: store one or two guesses into the unknown variable to direct the Solver to a solution.
- 4. Solve for the unknown variable by pressing the corresponding menu key.

A Simple Example: For the expression A + B = C, rewrite the expression as A + B - C = 0. The Solver program looks like this:

01	LBL "	SIMPLE"	05	RCL '	'8"
02	MVAR	"A"	06	RCL+	"B"
03	MVAR	"В"	07	RCL-	"C"
04	MVAR	"C"	08	END	

Hint: create the variables before entering the program.

After entering the program, you can use it to solve for any variable, given a value for each of the others. For example, find A when B = 12 and $C = \log(B)$.

Select the program: SOLVER SIMPL Store B: 12 B Store C: TOP.FCN LOG C Solve for A: A

The TOP.FCN menu is used to execute LOG (one of the top-row functions) without exiting from the Solver.

Numeric Integration

The Numeric Integration application allows you to calculate an approximation of a definite integral. The integrand, f(x), is written as a program similar to a Solver program (see the previous page). That is, the program must use a global label, declare the menu variables, and evaluate f(x).

After entering the integrand program, here are the steps for using the Integration application:

- 1. Press **f(x)**.
- 2. Select an integrand program from the menu.
- 3. Use the variable menu to store a value into each of the variables that should remain constant.
- 4. Select the variable of integration by pressing the corresponding menu key.
- 5. Store the lower limit (*LLIM*), the upper limit (*ULIM*), and the accuracy factor (*ACC*).
- 6. Press for to calculate the integral. The approximation for the integral is returned to the X-register and the uncertainty of computation is returned to the Y-register.

Matrix Operations

To create a new $m \times n$ matrix, enter the dimensions:

m **ENTER** *n* (for *m* rows and *n* columns)

and then press:

MATRIX NEW for a matrix in the X-register,

or **MATRIX DIM** ENTER name ENTER for a matrix in a variable. If the matrix already exists, the DIM function redimensions it.

To edit the matrix in the X-register:

MATRIX EDIT

To edit a named matrix:

MATRIX 🔻 EDITH name

When a matrix is being edited it is said to be *indexed*. (To index a named matrix without editing it, use the INDEX function.) Whenever there's an indexed matrix, two pointers are used to indicate the row and column of the current element: *I* and *J*, respectively.

Wrap and Grow Modes. If the index pointers are positioned to the last (lower-right) element in a matrix and you move to the right one position:

- The pointers wrap around to the first element of the matrix (Wrap mode).
- Or, the matrix grows by one complete row and the pointers move to the new row (Grow mode).

Wrap mode is automatically selected whenever you enter or exit the Matrix Editor. (The WRAP and GROW functions are in the second row of the Editor menu.)

Matrix Arithmetic. Most arithmetic and other operations work for matrices just as for individual numbers. Anytime a matrix is used in a mathematical operation with a complex number, the result is a complex matrix. Therefore, you can make any matrix complex by adding 0 + i0 to it:

0 ENTER COMPLEX +

or 0 ENTER COMPLEX STO + name

To solve a system of simultaneous linear equations represented by the matrix equation AX = B:

- 1. Press MATRIX SIMQ.
- 2. Key in the number of unknowns. The calculator automatically creates or redimensions the matrix variables *MATA*, *MATB*, and *MATX*.
- 3. Optional: If your equations involve complex numbers, make *MATA* and/or *MATB* complex (as shown at the top of this page).
- 4. Press MATA ; fill the matrix; press EXIT.
- 5. Press MATE ; fill the matrix; press EXIT.
- 6. Press MATX to calculate the solution matrix. Use the Matrix Editor keys to view the results.

Statistics 🗖

Statistical data is accumulated into 6 or 13 sequential storage registers (see page 3). Initially, the first summation register is R11. Use the Σ REG function to change the location of the first summation register. Σ REG does not move the data in the registers.

First, set the appropriate summation mode:

STAT V ALL Σ to use all 13 coefficients.

or **STAT V** LINE to use only the first six coefficients (which allows only linear curve fitting).

Next, clear the summation registers:

CLEAR CLZ

Then, accumulate the data:

For each x-y data pair: y-value ENTER x-value Σ +

- or For each single-point data value: x-value [2+]
- or For x-y data pairs stored in a two-column matrix (x-values in column 1; y-values in column 2): Place the matrix in the X-register and then press (2+).

To undo mistakes:

Put the incorrect data in the stack (try $[LAST_x]$).

Press **Ε**Σ-.

Continue accumulating data.

To select a curve model for forecasting:

Press STAT CFIT MODL

and then one of the following:

LINF	linear model: $y = mx + b$
LOGF	logarithmic model: $y = m \ln(x) + b$
EXPF	exponential model: $\ln(y) = mx + \ln(b)$
PWRF	power model: $\ln(y) = m \ln(x) + \ln(b)$
BEST	selects the model that returns the
	best correlation coefficient.

Base Conversions

Real numbers are displayed according to the current base mode (Hexadecimal, Decimal, Octal, or Binary). You can change the base mode using the BASE menu or by manually executing HEXM, DECM, OCTM, or BINM. Decimal mode is automatically selected when you exit from the BASE menu.

Press and hold **SHOW** to display:

- A hexadecimal, decimal, or octal number in full-precision *decimal* form.
- Or, all 36 bits of a binary number.

When the BASE menu is displayed, the following keys are temporarily redefined with these integer functions:

+/-	BASE+/-	36-bit 2's complement.
÷	BASE÷	36-bit integer divide.
×	BASE×	36-bit integer multiply.
Ξ	BASE-	36-bit integer subtract.
+	BASE+	36-bit integer add.

Bits are numbered from right to left beginning with 0. Bit 35 (the most significant bit) is the sign bit. Negative numbers are represented in 2's complement form. Nondecimal numbers longer than 36 bits are displayed as<Too Big>.

HP-42S Functions

ABS Absolute value. ACOS Arc cosine. ACOSH Arc hyperbolic cosine. ADV Advance paper. AGRAPH Alpha graphics. AIP Alpha integer part. ALENG Alpha length. **ALL** All display format. **ALL** All Σ mode (13 summation registers). AND Logical AND. AOFF Alpha off. AON Alpha on. ARCL Alpha recall. AROT Álpha rotate. ASHF Alpha shift. ASIN Arc sine. ASINH Arc hyperbolic sine. ASSIGN Assign CUSTOM menu key. ASTO Alpha store.

- ATAN Arc tangent.
- ATANH Arc hyperbolic tangent.
- ATOX Alpha to X.
- AVIEW Alpha view.
- BASE+ Base add.
- BASE- Base subtract.
- BASE× Base multiply.
- BASE÷ Base divide.
- BASE+/- Base change sign (2's complement).
- BEEP Beep.
- BEST Best fit model.
- BINM Binary mode.
- BIT? Bit test (xth bit of y).
- BST Back step.
- CF Clear flag.
- CLA Clear Alpha register.
- CLALL Clear all memory.
- **CLD** Clear display. **CLKEYS** Clear CUSTOM menu keys.
- CLLCD Clear LCD.

CLMENU Clear the programmable MENU. CLP Člear program. CLRG Clear registers. CLST Clear stack. CLV Clear variable. CLX Clear X-register. **CLS** Clear summation registers. **COMB** Combinations. COMPLEX Complex. CORR Correlation. COS Cosine. **COSH** Hyperbolic cosine. **CPXRES** Complex-result enable. CPX? Complex test. CROSS Cross product. CUSTOM CUSTOM menu. DECM Decimal mode. DEG Degrees mode. DEL Delete program lines. **DELAY** Printer delay time. DELR Delete matrix row. DET Determinant. **DIM** Dimension matrix. **DIM?** Dimensions of matrix in X-register. DOT Dot product. DSE Decrement, skip if less than or equal to zero. EDIT Edit matrix in Xregister. EDITN Edit named matrix. END End of a program. ENG Engineering display format. ENTER Enter.

EXITALL Exit all menus. EXPF Exponential fit model. E↑X e^x. **E**↑**X**−1 *e*[×]-1. FC? Flag clear test. FC?C Flag clear test, clear. FCSTX Forecast x-value. FCSTY Forecast y-value. FIX Fixed-decimal display format. FNRM Frobenius norm. FP Fractional part. FS? Flag set test. FS?C Flag set test, clear. GAMMA Gamma. GETKEY Get key code. GETM Get matrix. GRAD Grads mode. GROW Grow mode. GTO Go to. **HEXM** Hexadecimal mode. HMS+ Hours-minutessecond add. HMS- Hours-minutesseconds subtract. I+ I increment (next row). I- I decrement (prev row). **INDEX** Index matrix. INPUT Input. **INSR** Insert row. **INTEG** Integrate. **INVRT** Invert matrix. IP Integer part. ISG Increment, skip if greater. J+ J increment (next column).

J- J decrement (previous column).

KEYASN Key-assignments mode. KEYG On key, go to.

KEYX On key, execute.

- LASTX Last x.
- LBL Label.
- LCLBL Local label mode.
- LINF Linear fit model.
- LINS Linear mode (six summation registers).
- LIST List program lines.
- LN Natural logarithm.
- LN1+X Natural logarithm for values close to zero.
- LOG Common logarithm.
- LOGF Logarithmic fit.
- MAN Manual printing.
- MAT? Matrix test.
- MEAN Mean (average).
- MENU Programmable MENU.
- MOD Modulo.
- MVAR Menu variable. N! Factorial.
- **NEWMAT** New matrix.
- NORM Normal printing.
- NOT Logical NOT.
- OCTM Öctal mode. OFF Off.
- OLD Old element value.
- **ON** Continuous on.
- OR Logical OR.
- **PERM** Permutations.
- **PGMINT** Program to integrate.
- **PGMSLV** Program to solve.
- PI pi.
- PIXEL Pixel on.
- POLAR Polar mode.

- **POSA** Position in Alpha. **PRA** Print Alpha.
- PRLCD Print LCD.
- **PROFF** Printing off.
- **PROMPT** Prompt.
- **PRON** Printing on.
- PRP Print program.
- PRSTK Print stack.
- **PRUSR** Print user (variables and labels).
- **PRV** Print variable.
- **PRX** Print X-register.
- **PRΣ** Print summation registers.
- PSE Pause.
- PUTM Put matrix.
- **PWRF** Power fit.
- QUIET Quiet mode.
- RAD Radians mode.
- RAN Random number. RCL Recall.
- RCL+ Recall add.
- RCL- Recall subtract.
- RCL× Recall multiply.
- RCL÷ Recall divide.
- RCLEL Recall element.
- RCLIJ Recall IJ pointers.
- RDX, Radix comma.
- RDX. Radix period.
- **REALRES** Real-results only.
- **REAL**? Real test.
- **RECT** Rectangular mode.
- RND Round.
- RNRM Row norm.
- **ROTXY** Rotate y by x bits.
- RSUM Row sum.
- RTN Return.
- R<>R Row swap row.
- R↑ Roll up.
- **R**↓ Roll down.
- SCI Scientific notation.

SDFV Standard deviation. SEED Seed (for RAN). SF Set flag. SIGN Sign. SIN Sine. SINH Hyperbolic sine. SIZE Size of REGS. SLOPE Slope. SOLVE Solve for variable. SQRT Square root. SST Single step. STO Store. STO+ Store add. STO- Store subtract. STO× Store multiply. STO: Store divide. STOEL Store element. STOIJ Store IJ pointers. STOP Stop program. STR? String test. SUM Σx and Σy . TAN Tangent. TANH Hyperbolic tangent. TONE Tone (0-9). TRACE Trace printing. TRANS Transpose. UVEC Unit vector. VARMENU Variable menu. VIEW View. WMEAN Weighted mean. WRAP Wrap mode. X<> x exchange. X < >Y x exchange y. Test functions: X<Y? X<0? X≤0? X≤Y? X = 0?X = Y?X≠0? X≠Y? X≥0? X≥Y? X > 0?X > Y?

- **XEQ** Execute.
- **XOR** Exclusive OR.
- **XTOA** X to Alpha.
- **X** \uparrow **2** Square, x^2
- YINT Ý-intercept.
- Y↑X Power, y[×].
- 1/X Reciprocal.
- 10⁺X Common exponential, 10[×].
- + Add.
- Subtract.
- × Multiply.
- ÷ Divide.
- +/- Change sign.
- Σ+ Summation plus.
- Σ- Summation minus.
- EREG Set location of first summation register.
- **EREG?** Recall location of first summation register.
- →DEC To decimal.
- →DEG To degrees.
- →HMS To hoursminutes-seconds.
- →HR To decimal hours.
- →OCT To octal.
- →POL To polar.
- →RAD To radians.
- →REC To rectangular.
- Index pointers left.
- Index pointers up.
- Index pointers down.
- → Index pointers right.
- % Percent.

%CH Percent change.

Note: If you execute an HP-41 function, it is automatically converted into the corresponding HP-42S function.

Using the ALPHA Menu

To type an Alpha string into the Alpha register:

- 1. Press ALPHA to select the ALPHA menu.
- 2. Optional: press ENTER to turn on the cursor (in Program-entry mode, inserts the ⊢ symbol).
- **3.** Type the string using the characters shown below. Use (*shift*) to type lowercase letters.
- 4. Press EXIT or ENTER.

Also see "Alpha Parameters" on page 7.

Characters in the ALPHA Menu

ABCDE	A Ä	B A	C Æ	D	Е	
FGHI	F	G	н	Ι		
JKLM	J	к	L	Μ		
NOPQ	N ñ	0 0	Ρ	Q		
RSTUV	R	S	Т	U Ü	۷	
WXYZ	М	Х	Y	Ζ		
< E <	(>	C	נ	C	Э
+ ↑ ↓	÷	Ŧ	÷	÷		
$\langle = \rangle$	=	¥	<	>	₹	≥
MATH	Σ.	Ţ	1	۷	•	ų
PUNC	,	;	:	ļ	?	н
			× .	'	Ċ.	L F
MISC	\$	¥	#	/		
	£	8.	e	\sim	\sim	I

You can also use the following keys to type characters:

📕 🔏 , 📕 🕂 , Ē, 🕂 , Ē, 🔍 , 🔄 , E, 🕂 , 🗐

Flags

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Flags 36-80 cannot be altered with SF, CF, FS?C, or FC?C.

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