

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, ▼▲ is displayed indicating that the ▼ and ▲ 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.

| | |
|---|--|
| T | |
| Z | |
| 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 (REGS) 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.

| | |
|-----|----------------------|
| R00 | |
| R01 | |
| R02 | |
| R03 | |
| R04 | |
| R05 | |
| R06 | |
| R07 | |
| R08 | |
| R09 | |
| R10 | |
| R11 | Σx |
| R12 | Σx^2 |
| R13 | Σy |
| R14 | Σy^2 |
| R15 | Σxy |
| R16 | n |
| R17 | $\Sigma \ln x$ |
| R18 | $\Sigma (\ln x)^2$ |
| R19 | $\Sigma \ln y$ |
| R20 | $\Sigma (\ln y)^2$ |
| R21 | $\Sigma \ln x \ln y$ |
| R22 | $\Sigma x \ln y$ |
| R23 | $\Sigma y \ln x$ |
| R24 | |

To make *REGS* complex, press:

0 **[ENTER]** **[COMPLEX]** **[STO]** **[+]** **REGS**

To convert *REGS* back to a real matrix, press:

[RCL] **REGS** **[COMPLEX]** **[x \leftrightarrow y]** **[STO]** **REGS**

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 **[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 **[R/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]** **[FCH]**.

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.

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 **[ENTER]**.

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  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 $cccccc.fffii$; where $cccccc$ is the current counter value, fff is the final counter value, and ii is the increment size (default is 1). Both ISG and DSE 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 | 18 STO "COUNT" |
| 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 XXXXXXXXXX

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.
3. 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 "A"
02 MVAR "A"          06 RCL+ "B"
03 MVAR "B"          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 

Store C :  **TOP.FCN** LOG 



Solve for 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  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**] [▼] [EDIT] *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 `MATB`; 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 **▼** `ALLΣ` to use all 13 coefficients.

or **STAT** **▼** `LINΣ` to use only the first six coefficients (which allows only linear curve fitting).

Next, clear the summation registers:

CLEAR `CLEΣ`

Then, accumulate the data:

- For each x - y data pair: y -value **ENTER** x -value **$\Sigma+$**
or For each single-point data value: x -value **$\Sigma+$**
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 **$\Sigma+$** .

To undo mistakes:

Put the incorrect data in the stack (try **Δ LAST $_x$**).

Press **Δ $\Sigma-$** .

Continue accumulating data.

To select a curve model for forecasting:

Press **Δ 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 **Δ 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:

| | | |
|------------------|---------------------------------|--------------------------|
| $\boxed{+/-}$ | BASE + / - | 36-bit 2's complement. |
| $\boxed{\div}$ | BASE \div | 36-bit integer divide. |
| $\boxed{\times}$ | BASE \times | 36-bit integer multiply. |
| $\boxed{-}$ | BASE - | 36-bit integer subtract. |
| $\boxed{+}$ | 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. | ATAN Arc tangent. |
| ACOS Arc cosine. | ATANH Arc hyperbolic tangent. |
| ACOSH Arc hyperbolic cosine. | ATOX Alpha to X. |
| ADV Advance paper. | AVIEW Alpha view. |
| AGRAPH Alpha graphics. | BASE + Base add. |
| AIP Alpha integer part. | BASE - Base subtract. |
| ALENG Alpha length. | BASE \times Base multiply. |
| ALL All display format. | BASE \div Base divide. |
| ALLΣ All Σ mode (13 summation registers). | BASE + / - Base change sign (2's complement). |
| AND Logical AND. | BEEP Beep. |
| AOFF Alpha off. | BEST Best fit model. |
| AON Alpha on. | BINM Binary mode. |
| ARCL Alpha recall. | BIT? Bit test (x^{th} bit of y). |
| AROT Alpha rotate. | BST Back step. |
| ASHF Alpha shift. | CF Clear flag. |
| ASIN Arc sine. | CLA Clear Alpha register. |
| ASINH Arc hyperbolic sine. | CLALL Clear all memory. |
| ASSIGN Assign CUSTOM menu key. | CLD Clear display. |
| ASTO Alpha store. | CLKEYS Clear CUSTOM menu keys. |
| | CLLCD Clear LCD. |

CLMENU Clear the programmable MENU.
CLP Clear program.
CLRG Clear registers.
CLST Clear stack.
CLV Clear variable.
CLX Clear X-register.
CLΣ 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 X-register.
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^x-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-minutes-second add.
HMS- Hours-minutes-seconds 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.
LINΣ 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 Octal mode.
OFF Off.
OLD Old element value.
ON Continuous on.
OR Logical OR.
PERM Permutations.
PGMINT Program to integrate.
PGMSLV Program to solve.
PI π .
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.

SDEV 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<0? | X<Y? |
| 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↑2 Square, x^2 .
YINT Y-intercept.
Y↑X Power, y^x .
1/X Reciprocal.
10↑X Common exponential, 10^x .
+ Add.
- Subtract.
× Multiply.
÷ Divide.
+/- Change sign.
 $\Sigma+$ Summation plus.
 $\Sigma-$ Summation minus.
 Σ REG Set location of first summation register.
 Σ REG? Recall location of first summation register.
→DEC To decimal.
→DEG To degrees.
→HMS To hours-minutes-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 \vdash 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 | B | C | D | E |
| | Ä | Å | Æ | | |
| FGHI | F | G | H | I | |
| JKLM | J | K | L | M | |
| NOPQ | N | O | P | Q | |
| | Ñ | Ö | | | |
| RSTUV | R | S | T | U | V |
| | | | | Ü | |
| WXYZ | W | X | Y | Z | |
| ▼ ▲ | | | | | |
| ([{ | (|) | [|] | { |
| + ↑ ↓ | ← | ↑ | ↓ | → | |
| < = > | = | ≠ | < | > | ≤ ≥ |
| MATH | Σ | ∫ | √ | ∠ | ° μ |
| PUNC | , | ; | : | ! | ? " |
| | " | ' | ' | ' | ' |
| MISC | \$ | * | # | / | ■ |
| | £ | & | @ | \ | ~ |

You can also use the following keys to type characters:

 %, **π**, **E**, **+**, **-**, **×**, **÷**, **□**, and **0 - 9**

Flags

- | | |
|------------------------|-------------------------|
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| 11 Auto Execute | 49 Low Battery Power |
| 12 Print Double-wide | 50 Message |
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Flags 36-80 cannot be altered with SF, CF, FS?C, or FC?C.

The HP-42S Quick Reference Guide

by

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