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Technical information covered in this brochure, product availability, and prices are subject to change without notice.

\*All prices stated are suggested U.S. list.

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## Scientific Calculator Buyer's Comparison Chart

- (1) Cardreader HP 82106A  
Infrared Printer HP 82240A with interface module HP 82242A  
HP-IL peripherals with HP-IL interface module HP82242A
- (2) HP-42S has alpha characters accessible through softkeys.
- Mem Unlimited within available memory.
- [ ] Specific difference relating to HP-41CV.
- \* Thousands of user-contributed programs for the HP-41.
- M Plug-in application module.
- † Includes scientific, business, operational, customizing.
- Built-in.

### PHYSICAL FEATURES

Display type	Dot-matrix LCD
Display size	4 line x 23 chrs
Keyboard	Num & alpha

### OPERATING FEATURES

Built-in functions†	Over 1500
Operating logic	RPN & algebraic

### CONFIGURATION

Peripherals	IR printer
Plug-in modules	■
Built-in user memory (bytes/regs)	32K bytes
Max. user memory (incl. add-on RAM)	32K bytes
Clock, alarms, appointments	■
Text-file editor	■
Software support	5 HP sol books
Redefinable keys	6 softkeys

### MATH FEATURES

+ - * / √ 1/x × chs ln x e <sup>y</sup> * Log × 10 <sup>x</sup> * % PI n!	■
Graphics	■
Symbolic algebra	■
Numeric integration	■
Symbolic polynomial integration	■
Symbolic derivatives	■

### SCIENTIFIC FEATURES

Base conversions, arithmetic	■
Bit manipulations, Boolean operators	■
Complex-number functions	■
Solve function (root finder)	■
Hyperbolics/inverses	■
Matrix/vector operations	■
Trigonometric functions	■
Unit conversions (physical)	■

### FINANCIAL FEATURES (n, i%, PV, PMT, FV)

Multivariate stats	■
Statistical plots (scatter-grams)	■
Σx, Σx <sup>2</sup> , Σy, Σy <sup>2</sup> , Σxy	■
Create, edit, save, name, list	■
Standard deviation, mean value	■
Linear regression/correlation coefficient	■
Curve fit (LIN, LOG, EXP, POW)	■
Weighted mean, grouped standard deviation	■
Combinations/permutations	■

### CUSTOMIZING METHOD

Number of steps/formulas	■
Create, name, edit custom applications	■
Solve for any variable	■
Alpha string manipulation	■
Conditional tests/flags	■
Indexed looping	■

HP-28S



*The Broadest Range of Numeric and Symbolic Solutions*

Display type	Dot-matrix LCD
Display size	4 line x 23 chrs
Keyboard	Num & alpha
Built-in functions†	Over 1500
Operating logic	RPN & algebraic
Peripherals	IR printer
Plug-in modules	■
Built-in user memory (bytes/regs)	32K bytes
Max. user memory (incl. add-on RAM)	32K bytes
Clock, alarms, appointments	■
Text-file editor	■
Software support	5 HP sol books
Redefinable keys	6 softkeys
Graphics	■
Symbolic algebra	■
Numeric integration	■
Symbolic polynomial integration	■
Symbolic derivatives	■
Base conversions, arithmetic	■
Bit manipulations, Boolean operators	■
Complex-number functions	■
Solve function (root finder)	■
Hyperbolics/inverses	■
Matrix/vector operations	■
Trigonometric functions	■
Unit conversions (physical)	■
Multivariate stats	■
Statistical plots (scatter-grams)	■
Σx, Σx <sup>2</sup> , Σy, Σy <sup>2</sup> , Σxy	■
Create, edit, save, name, list	■
Standard deviation, mean value	■
Linear regression/correlation coefficient	■
Curve fit (LIN, LOG, EXP, POW)	■
Weighted mean, grouped standard deviation	■
Combinations/permutations	■
Number of steps/formulas	■
Create, name, edit custom applications	■
Solve for any variable	■
Alpha string manipulation	■
Conditional tests/flags	22/64
Indexed looping	■

HP-41CX/CV



*Classics for Expansion and Versatility*

Display type	Segment LCD
Display size	1 line x 12 chrs
Keyboard	Num & alpha
Built-in functions†	200 + M [128 + M]
Operating logic	RPN
Peripherals	(1)
Plug-in modules	ROMs, RAMs, I/O
Built-in user memory (bytes/regs)	3133/442 [2237/319]
Max. user memory (incl. add-on RAM)	6433/919
Clock, alarms, appointments	■ [M]
Text-file editor	■ [Not Avail]
Software support	24 books/20 ROMs*
Redefinable keys	34 user keys
Graphics	■
Symbolic algebra	■
Numeric integration	■
Symbolic polynomial integration	■
Symbolic derivatives	■
Base conversions, arithmetic	■
Bit manipulations, Boolean operators	■
Complex-number functions	■
Solve function (root finder)	■
Hyperbolics/inverses	■
Matrix/vector operations	■
Trigonometric functions	■
Unit conversions (physical)	■
Multivariate stats	■
Statistical plots (scatter-grams)	■
Σx, Σx <sup>2</sup> , Σy, Σy <sup>2</sup> , Σxy	■
Create, edit, save, name, list	■
Standard deviation, mean value	■
Linear regression/correlation coefficient	■
Curve fit (LIN, LOG, EXP, POW)	■
Weighted mean, grouped standard deviation	■
Combinations/permutations	■
Number of steps/formulas	■
Create, name, edit custom applications	■
Solve for any variable	■
Alpha string manipulation	■
Conditional tests/flags	20/56 [14/56]
Indexed looping	■

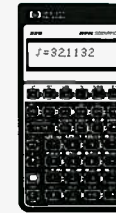
HP-42S



*Power in a Class of Its Own*

Display type	Dot-matrix LCD
Display size	2 line x 22 chrs
Keyboard	Num & alpha (2)
Built-in functions†	Over 600
Operating logic	RPN
Peripherals	IR printer
Plug-in modules	■
Built-in user memory (bytes/regs)	Over 7200/Mem
Max. user memory (incl. add-on RAM)	Over 7200
Clock, alarms, appointments	■
Text-file editor	■
Software support	Prog Exp & Tech*
Redefinable keys	18 menu keys
Graphics	■
Symbolic algebra	■
Numeric integration	■
Symbolic polynomial integration	■
Symbolic derivatives	■
Base conversions, arithmetic	■
Bit manipulations, Boolean operators	■
Complex-number functions	■
Solve function (root finder)	■
Hyperbolics/inverses	■
Matrix/vector operations	■
Trigonometric functions	■
Unit conversions (physical)	■
Multivariate stats	■
Statistical plots (scatter-grams)	■
Σx, Σx <sup>2</sup> , Σy, Σy <sup>2</sup> , Σxy	■
Create, edit, save, name, list	■
Standard deviation, mean value	■
Linear regression/correlation coefficient	■
Curve fit (LIN, LOG, EXP, POW)	■
Weighted mean, grouped standard deviation	■
Combinations/permutations	■
Number of steps/formulas	■
Create, name, edit custom applications	■
Solve for any variable	■
Alpha string manipulation	■
Conditional tests/flags	20/100
Indexed looping	■

HP-32S



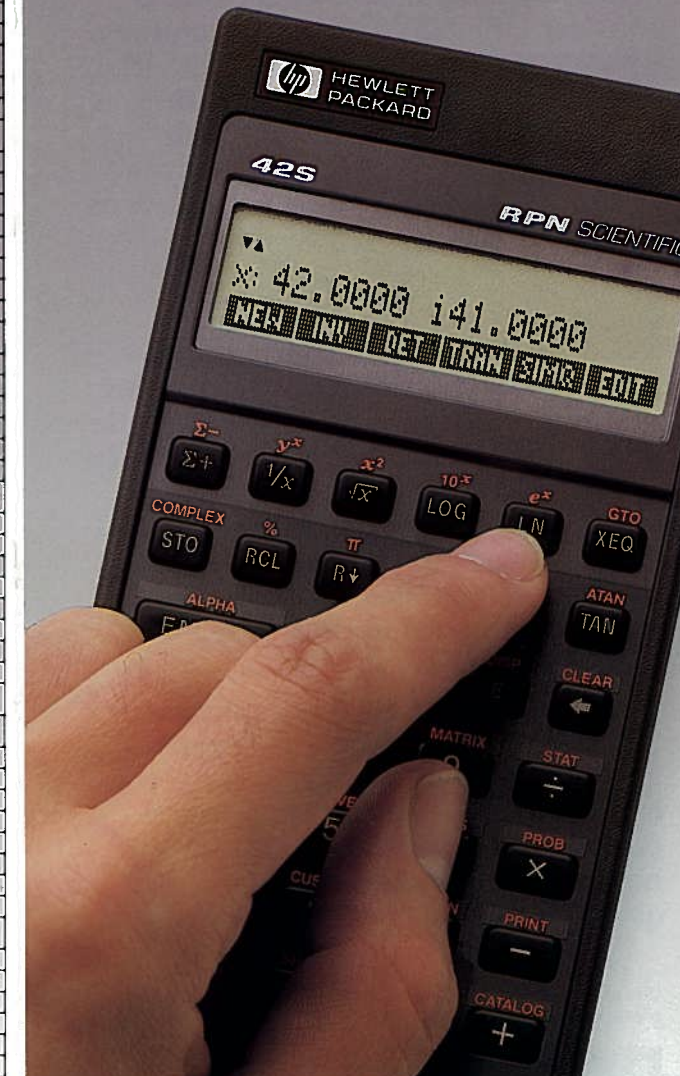
*The Perfect Solution When You Need a Little More*

Display type	Dot-matrix LCD
Display size	1 line x 12 chrs
Keyboard	Num & alpha
Built-in functions†	Over 180
Operating logic	RPN
Peripherals	■
Plug-in modules	■
Built-in user memory (bytes/regs)	390/27
Max. user memory (incl. add-on RAM)	390
Clock, alarms, appointments	■
Text-file editor	■
Software support	1 HP sol book
Redefinable keys	■
Graphics	■
Symbolic algebra	■
Numeric integration	■
Symbolic polynomial integration	■
Symbolic derivatives	■
Base conversions, arithmetic	■
Bit manipulations, Boolean operators	■
Complex-number functions	■
Solve function (root finder)	■
Hyperbolics/inverses	■
Matrix/vector operations	■
Trigonometric functions	■
Unit conversions (physical)	■
Multivariate stats	■
Statistical plots (scatter-grams)	■
Σx, Σx <sup>2</sup> , Σy, Σy <sup>2</sup> , Σxy	■
Create, edit, save, name, list	■
Standard deviation, mean value	■
Linear regression/correlation coefficient	■
Curve fit (LIN, LOG, EXP, POW)	■
Weighted mean, grouped standard deviation	■
Combinations/permutations	■
Number of steps/formulas	■
Create, name, edit custom applications	■
Solve for any variable	■
Alpha string manipulation	■
Conditional tests/flags	8/4
Indexed looping	■

HEWLETT-PACKARD

## The NEW HP-42S RPN Scientific Calculator

Powerful Performance in a Class of Its Own



## Powerful Performance

Whether you're a scientist, an engineer, or studying to be one, a scientific calculator from Hewlett-Packard can help you turn in an uncompromising performance time after time.

And now's the right time for you to consider HP's NEW powerful performer, the HP-42S.\* It's packed with features that make it easy to use and functions you need to perform your best.



Features like matrix and vector calculations, complex numbers, equation solving and numeric integration, curve fitting and base conversions are already built in. And we've included an exceptional matrix entry and editing system, so you can work through the most complicated application with ease. All this adds up to a calculator that's unmatched.

And because we build our calculators with high quality components (we use gold plating on PC boards), and rigorous test procedures (such as temperature cycling between 55°C to -5°C for 16 hours), you're assured of unsurpassed quality and reliability. It's an HP tradition.

\*For more information about HP's full line of scientific calculators, please contact your nearest dealer.

## Perform with Power

### The NEW HP-42S:

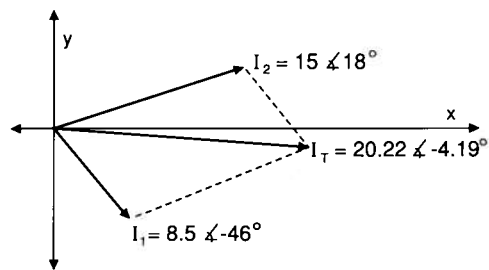
#### Powerful Performance in a Class of Its Own

There's no better calculator for solving matrix and vector math than the HP-42S. Menus and prompts step you through these applications effortlessly. That's because the display prompts you for each variable, and your results are clearly labeled. Plus, the



HP-42S handles complex number elements in a matrix as easily as real numbers. For the money, there's no other calculator that provides this much flexibility and so many functions for solving matrices and vectors.

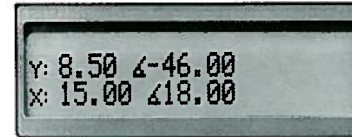
And when you solve a problem that requires polar vectors, like this one:



get a polar answer without converting to rectangular mode first. That saves you extra steps, and gives results in record time.

#### Right Before Your Eyes

Many calculators allow you to work with complex numbers, but the HP-42S is the only calculator that labels the complex



element. You won't need to keep track of it in your head or on paper. Because we've built in prompts and labels, solving a complicated application like numeric integration is straightforward. The HP-42S steps you through, so you know what to do next.

And with the HP-42S equation-solving function, you can solve for any variable in an equation. Here's how it works. Enter an equation just once, input the variables you know (using menus and prompts), and get the result. To change the analysis, simply enter the new variable. You get results based on the new information.

Because we've packed so much into the HP-42S, and included plenty of room for your personal programs, you might think that managing all this information could be a problem. Not so. Let the HP SmartCatalog remember for you. Just name your functions, programs and data, press a key and scroll through the list. You'll see all the functions not on the keypad, including those you've programmed in. There's no other calculator available that offers you these powerful capabilities, and yet is so easy to use.

#### Your Programs or HP-41 Programs – You Have a Choice

With the HP-42S, it's easy to create your own unique programs. RPN makes entry simple.

Or you can choose to key in your HP-41 programs or any of thousands available for

the HP-41C/CV.† You can enhance these programs to use the powerful features of the HP-42S, like softkeys, menus and labels.

And for serious programming, the optic Programming Examples and Techniques especially useful. This book offers examples to help you master the advanced used commands, menus, labels, prompts and variables in your own programs.

#### Invisible Link Provides Visible Results

The HP-42S has an interface that lets you operate HP's convenient battery-powered Infrared Printer. This printer is the go-anywhere companion to the HP-42S.

And the best part is, there are no cable attachments. This unique thermal printer "connects" to the calculator by an invisible, infrared light beam. Just point, push the button and print. You can print out a complete record of your calculations and results including an entire plot or graph, or only operations you want to examine further.

HP gathered the powerful functions you depend on to get your job done into one calculator, and made it remarkably easy to use.

The HP-42S – it has the power to get the job done.

HP-42S: \$120.00

Programming Examples and Techniques  
(00042-90020) \$9.95

HP 82240A Infrared Printer: \$135.00

HP 82241A AC Adapter: \$15.00

†HP-41 modules will not work with the HP-42S.