

## STORAGE REGISTERS

**R<sub>0</sub>**   
**R<sub>1</sub>**   
**R<sub>2</sub>**   
**R<sub>3</sub>**

**R<sub>4</sub>**   
**R<sub>5</sub>**   
**R<sub>6</sub>**   
**R<sub>7</sub>**

**STO** **n** stores x value in R<sub>n</sub>.

**RCL** **n** recalls value from R<sub>n</sub>.

**STO** **-** **n** x value subtracted from contents of R<sub>n</sub> and difference stored in R<sub>n</sub>.

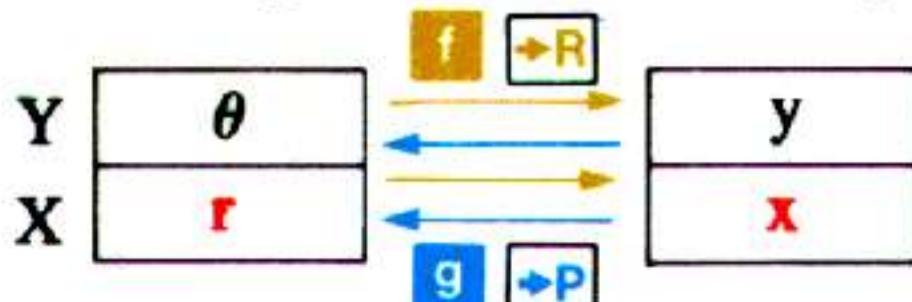
**STO** **+** **n** x value added to contents of R<sub>n</sub> and sum stored in R<sub>n</sub>.

**STO** **x** **n** x value multiplied by contents of R<sub>n</sub> and product stored in R<sub>n</sub>.

**STO** **÷** **n** Contents of R<sub>n</sub> divided by x value and quotient stored in R<sub>n</sub>.

## COORDINATE CONVERSION

**f** **→R** converts polar coordinates (r, θ) to rectangular coordinates (x, y).



**g** **→P** converts rectangular coordinates (x, y) to polar coordinates (r, θ).

## CONTROLLING THE DISPLAY

**f** **FIX** **n** shows numbers with "n" places to the right of the decimal point.

**f** **SCI** **n** shows numbers in scientific notation with "n" places to the right of the decimal point.

**f** **ENG** **n** shows numbers with "3 + n" digits and an exponent of ten that is the nearest multiple of three. For example, after pressing

**f** **ENG** **1**,  $1.2456 \times 10^4$  is displayed **12.46 03**.

## SUMMATIONS

Press **f** **REG** to clear storage registers R<sub>0</sub> through R<sub>7</sub> before using **Σ+**.

**Σ+** stores summations of the numbers in the X- and Y-registers into registers R<sub>3</sub> through R<sub>7</sub> as shown below:

$$\begin{array}{lll} n \rightarrow R_3 & \sum xy \rightarrow R_5 & \sum x \rightarrow R_7 \\ \sum y \rightarrow R_4 & \sum x^2 \rightarrow R_6 & \end{array}$$

**f** **Σ-** Subtracts same entries from the summations shown above in registers R<sub>3</sub> through R<sub>7</sub>.

HEWLETT  PACKARD

# HP-25

## Quick Reference Guide

### CALCULATION RULES TO REMEMBER

1. To use any one-number function (e.g., **g** **1/x**, **f** **log**, **f** **sin**):

- Key in the number.
- Press the function keys.

For example to calculate  $\frac{1}{4}$ , key in **4** and press **g** **1/x**.

2. To use any two-number function (e.g. **-**, **+**, **×**, **÷**, **f** **y<sup>x</sup>**):

- Key in the first number.
- Press **ENTER**.
- Key in the second number.
- Press the function keys.

For example to calculate  $2 \times 3$ , key in **2**, press **ENTER**, key in **3**, and press **×**.

### AUTOMATIC MEMORY STACK

<b>T</b>	0.00	→ Top
<b>Z</b>	0.00	
<b>Y</b>	0.00	
<b>X</b>	0.00	→ Always displayed.

## PROGRAM MEMORY

When the calculator is switched ON, program memory is filled with **GTO** **0** **0** instructions (keycode 13 00).

00
01 13 00
02 13 00
03 13 00
04 13 00

◀ Automatic stop instruction.

46 13 00
47 13 00
48 13 00
49 13 00

◀ 49 steps for your programs.

## PROGRAM MODE

PRGM  RUN

In program mode, only the following three functions are active. Every other function key is recorded in program memory when pressed.

**SST** Single step. Displays step number and keycode of next program memory step.

**BST** Back step. Displays step number and keycode of previous program memory step.

**f PRGM** Clears program memory to **GTO** **0** **0** instructions and resets calculator to step 00.

## AUTOMATIC RUN MODE

PRGM  RUN

The three active keys in program mode operate differently in automatic run mode.

**SST** Single step. Displays step number and keycode of current program memory step when held down; executes current instruction, displays result, and moves to next step when released.

**BST** Back step. Moves to previous step and displays step number and keycode of previous program memory step when held down; displays original contents of X-register when released. No instructions are executed.

**f PRGM** Resets calculator so that program execution will begin at step 00.

### Executed In a Program

Function keys may be executed in a program. Program instructions are described below:

**R/S** Stops program execution.

**GTO** **n** **n** Branches program execution to step number specified. Execution then continues sequentially downward. Step numbers must be two digits (e.g., **GTO** **0** **8** executes a branch to step 8).

**f PAUSE**

Stops program execution for 1 second and displays contents of X-register. Then continues program execution.

**g NOP**

No operation. Calculator executes no operation and continues execution with the next instruction.

**f** **x<y**, **x≥y**, **x≠y**, **x=y**

Tests values in X-register against values in Y-register as indicated. Skips one step if the test proves false.

**g** **x<0**, **x≥0**, **x≠0**, **x=0**

Tests values in X-register against zero as indicated. Skips one step if the test proves false.

### Pressed from the Keyboard

Function keys may be pressed from the keyboard. Normally, only two programming instructions are also pressed from the keyboard.

**R/S**

Begins execution of a recorded program sequentially downward from the current program memory step.

**GTO** **n** **n**

Specifies that the step number selected by “**n** **n**” becomes the current program memory step number. All step numbers must be two digits. (e.g., press **GTO** **0** **8** to branch to step 8).

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