

# HP-19C/HP-29C Quick Reference Card

## AUTOMATIC MEMORY STACK

T	0.00
Z	0.00
Y	0.00
X	0.00

**Note:** If **Error** is displayed when calculator is turned on, continuous memory has been cleared by a power interruption.

Always displayed.

## PRIMARY STORAGE REGISTERS

Address

R <sub>0</sub>	<input type="text"/>	0 (Indirect Register)
R <sub>1</sub>	<input type="text"/>	1
R <sub>2</sub>	<input type="text"/>	2
R <sub>3</sub>	<input type="text"/>	3
R <sub>4</sub>	<input type="text"/>	4
R <sub>5</sub>	<input type="text"/>	5
R <sub>6</sub>	<input type="text"/>	6
R <sub>7</sub>	<input type="text"/>	7
R <sub>8</sub>	<input type="text"/>	8
R <sub>9</sub>	<input type="text"/>	9
R <sub>0</sub>	<input type="text"/>	10 n
R <sub>1</sub>	<input type="text"/>	11 Σx
R <sub>2</sub>	<input type="text"/>	12 Σx <sup>2</sup>
R <sub>3</sub>	<input type="text"/>	13 Σy
R <sub>4</sub>	<input type="text"/>	14 Σy <sup>2</sup>
R <sub>5</sub>	<input type="text"/>	15 Σxy

Primary storage registers, program memory, displayed X-register, and display format are maintained by continuous memory.

## Statistical Registers

## INDIRECT STORAGE REGISTERS (Indirect access only)

	<input type="checkbox"/> Address
R <sub>(16)</sub>	<input type="text"/> 16
R <sub>(17)</sub>	<input type="text"/> 17
R <sub>(18)</sub>	<input type="text"/> 18
R <sub>(19)</sub>	<input type="text"/> 19
R <sub>(20)</sub>	<input type="text"/> 20
R <sub>(21)</sub>	<input type="text"/> 21
R <sub>(22)</sub>	<input type="text"/> 22
R <sub>(23)</sub>	<input type="text"/> 23
R <sub>(24)</sub>	<input type="text"/> 24
R <sub>(25)</sub>	<input type="text"/> 25
R <sub>(26)</sub>	<input type="text"/> 26
R <sub>(27)</sub>	<input type="text"/> 27
R <sub>(28)</sub>	<input type="text"/> 28
R <sub>(29)</sub>	<input type="text"/> 29

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

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

**STO**  stores x value in indirect register (R<sub>0</sub>-register).

**RCL**  recalls value from R<sub>0</sub>.

**RCL**  recalls value from register whose address is stored in R<sub>0</sub>.

**STO**  + , **STO**  - , **STO**  × , **STO**  ÷ , or **STO**  +  , **STO**  -  , **STO**  ×  , **STO**  ÷  : x value is added to, subtracted from, multiplied by, or divided into the contents of R<sub>n</sub> or R<sub>n</sub>, and the result is placed in R<sub>n</sub> or R<sub>n</sub>. Can be performed on primary storage registers R<sub>0</sub> through R<sub>9</sub>, R<sub>0</sub> through R<sub>5</sub>.

**☐ CLEAR REG** clears all storage registers to 0.00.

## ACCUMULATIONS

Press **☐ CLEAR**  to clear the statistical registers (R<sub>0</sub> through R<sub>5</sub>).

**Σ\*** stores accumulations of the numbers in the X- and Y-registers of the stack in storage registers R<sub>0</sub> through R<sub>5</sub>.

## USING REGISTER R<sub>0</sub> FOR INDIRECT CONTROL

A value can be placed in R<sub>0</sub> by pressing **STO** . The  function then uses the integer portion of the number stored in R<sub>0</sub> as an address value. If the number in R<sub>0</sub> is outside the specified limits, an error condition occurs.

Indirect control can be performed with:

**STO**  or **RCL** ; stores the x value in or recalls x value from the primary or indirect storage register addressed by the number in R<sub>0</sub>.

**STO**  + , **STO**  - , **STO**  × , **STO**  ÷ : x value is added to, subtracted from, multiplied by, or divided into the contents of the storage register addressed by the number in R<sub>0</sub>; the result is placed in the storage register addressed by the number in R<sub>0</sub>.

**ISZ**, **DSZ**; increments (adds 1 to) or decrements (subtracts 1 from) R<sub>0</sub>. In a running program, if the value in R<sub>0</sub> becomes 0, execution skips one step of program memory before continuing.

**GTO** , **GSB** , with number in R<sub>0</sub> from 0 through 9, transfers execution to the portion of the program defined by the selected label according to the address scheme below:

Address

<b>LBL</b> <input type="checkbox"/>	0
<b>LBL</b> <input type="checkbox"/>	1
<b>LBL</b> <input type="checkbox"/>	2
<b>LBL</b> <input type="checkbox"/>	3
<b>LBL</b> <input type="checkbox"/>	4
<b>LBL</b> <input type="checkbox"/>	5
<b>LBL</b> <input type="checkbox"/>	6
<b>LBL</b> <input type="checkbox"/>	7
<b>LBL</b> <input type="checkbox"/>	8
<b>LBL</b> <input type="checkbox"/>	9

With -1 through -99 in R<sub>0</sub>, **GTO**  or **GSB**  transfers execution back in program memory the number of steps specified by the number in R<sub>0</sub>.

