**PURPOSE**

Compute the square root of a non-negative number.

**SYNTAX**

LET \(<y2> = \text{SQRT}(<y1>)\)  
\(<\text{SUBSET/EXCEPT/FOR qualification}>\)

where \(<y1>\) is a non-negative decimal number, parameter, or variable;  
\(<y2>\) is a variable or a parameter (depending on what \(<y1>\) is) where the computed square roots are stored;  
and where the \(<\text{SUBSET/EXCEPT/FOR qualification}>\) is optional.

**EXAMPLES**

LET A = SQRT(14.2835,1)  
LET A = SQRT(A1,2)  
LET X2 = SQRT(X1-4,2)

**NOTE**

If a negative number is passed to this routine, an error message is printed.

**DEFAULT**

None

**SYNONYMS**

None

**RELATED COMMANDS**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
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<tbody>
<tr>
<td>ABS</td>
<td>Compute the absolute value of a number.</td>
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<tr>
<td>EXP</td>
<td>Compute the exponential of a number.</td>
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<tr>
<td>MOD</td>
<td>Compute the modulo function.</td>
</tr>
<tr>
<td>MIN</td>
<td>Compute the minimum of two numbers.</td>
</tr>
<tr>
<td>MAX</td>
<td>Compute the maximum of two numbers.</td>
</tr>
<tr>
<td>DIM</td>
<td>Compute the positive difference of two numbers.</td>
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<tr>
<td>IND</td>
<td>Compute the mathematical indicator function.</td>
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</table>

**APPLICATIONS**

Data transformation

**IMPLEMENTATION DATE**

Pre-1987
PROGRAM
TITLE PLOT SQUARE ROOT FUNCTION
PLOT SQRT(X) FOR X = 0 .1 9.9