

HP 33s

Scientific Calculator

User's Manual Update

Dear Customer,

Please note the following issues regarding the usage of HMS conversion, rectangular to polar conversion, and the combinations function.

If you have any question or concerns, please contact your local support center for more details.

Thank You

Hewlett-Packard

HMS Conversion

The \rightarrow HMS function does not always yield the correct result when the input is a negative number.

Workaround :

When using the \rightarrow HMS function, if the input is a negative number, perform the conversion on the opposite (using the \pm/\square function) of the input and take the opposite (using the \pm/\square function) of the result. This will yield the correct result.

Example :

$-4.833333333333 \times 10^{-1}$ \pm/\square \rightarrow HMS \pm/\square will always yield the correct answer (-0.29h) while

$-4.833333333333 \times 10^{-1}$ \rightarrow HMS will not

Rectangular to Polar Conversion ($\rightarrow\theta,r$)

When performing a rectangular to polar conversion of a number where the X or Y coordinate equal to zero, the result might be inaccurate.

Workaround :

When performing rectangular to polar conversions, if any of the 2 input is 0, take the absolute value of the number before performing the rectangular to polar conversion to yield the correct result.

Example :

10 \pm/\square $\rightarrow\theta,r$ will yield the correct result (10, 90) while

10 \pm/\square $\rightarrow\theta,r$ will not

Combination Function

The nCr function will not display an overflow message if the result exceed the maximum number possible on the HP33S ($9.9999999999 \times 10^{499}$) but will return an incorrect answer.

Workaround :

Do not use the nCr function on numbers larger than 1660.

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