

Calculator: Small Errors in Calculations (4/95)

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TOPIC -----

When I type the following equation into the graphing calculator, the calculator returns FALSE when it should return TRUE:

762.50 -191.69 - 63.87 - 28.89 = 478.05

Why is this happening?

DISCUSSION -----

The reason for the calculator's behavior is the fact that you are trying to do decimal math on a binary processor. Not all decimal fractions can be represented exactly in binary form. This leads to very small errors in calculations and is demonstrable in most computers.

There is an article on page 42 in the February 20, 1995 issue of MacWeek that also explains this behavior.

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