

Mathematics with the HP48G Calc

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1 Linear Systems

System of linear equations is a set of equations. The equations have the same set of variables. The solution can be obtained for instance with the Cramer's rule. Other methods are available.

1.1 Example 1

A first basic example is given as follows:

1. Linear system (1)

(a) $3x + 2y - z = 1$

(b) $2x - 2y + 4z = -1$

(c) $-x + 0.5y - z = 0$

- The solution is: $x = 1, y = -2, z = -2$
- The solution with HP48g with image of the calculator:
 - Several screenshots of the calculator are given. First it illustrates entering the two matrix, which will allow to solve the system.
 - Press "Solve" allows the HP48G to calculate and return the solution in form of a matrix.

