

Mathematics with the HP48G Calc

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1 Vector Algebra

1.1 Cross Product: Example 1

A first basic example is given as follows:

$$A = \begin{bmatrix} 2 \\ 2 \\ 3 \end{bmatrix} \quad (1)$$

$$B = \begin{bmatrix} 4 \\ 2 \\ 5 \end{bmatrix} \quad (2)$$

You may search for the cross-product with $A \times B = C$ It gives:

$$C = \begin{bmatrix} 4 \\ 2 \\ -4 \end{bmatrix} \quad (3)$$

- Example (1) using the HP48G
 - You may enter $[2\ 2\ 3]$
 - You may enter $[4\ 2\ 5]$
 - In order to calculate the cross product, the "CROSS" function in the HP48G/HP50G will allow to give the solution:
 - The solution is: $[4\ 2\ -4]$



