#### MDETERM

[Syntax](Syntax.docx):

MDETERM ( array )

Description: Computes the determinant of the square matrix of numbers designated by array. The determinant is calculated with an accuracy of at least 15 digits, which can lead to a small numeric error when the calculation is not complete. [Example: The determinant of a singular matrix can differ from zero by 1E-16. end example]

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| array | array, [reference](reference.docx) | Designate a square matrix of numbers. |

Return Type and Value: number – The determinant of array. Some square matrices cannot be inverted. The determinant of a non-invertible matrix is 0.

However, if

* Any cells in array are empty or contain text, the return value is unspecified.
* The matrix designated by array is not square, #VALUE! is returned.

[Example:  
  
MDETERM(A2:D5) results in the determinant of the 4x4 array designated by the [cell](cell.docx) range  
MDETERM({3,6,1;1,1,0;3,10,2}) results in 1  
MDETERM({3,6;1,1}) results in -3  
  
end example]