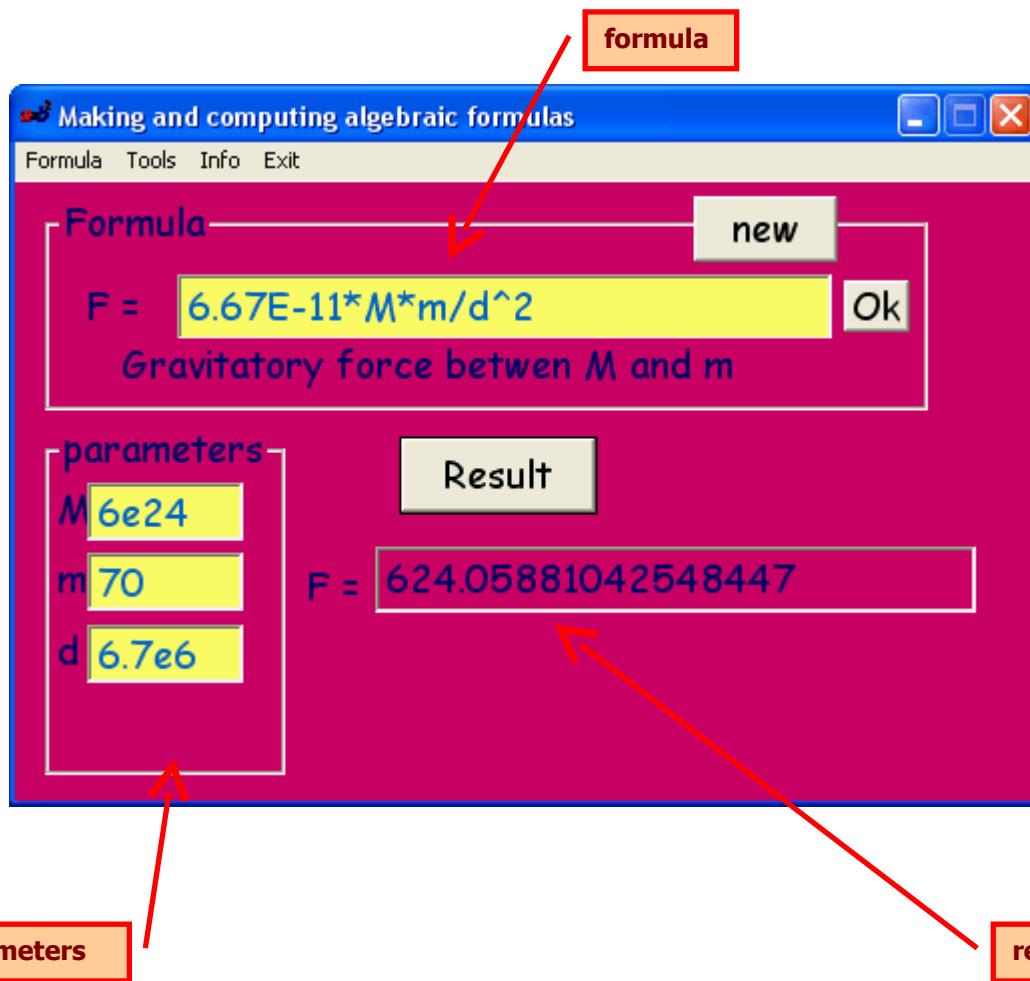


FormAlg

Edition and calculation of user's formulas



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Types of formulas. Introduction

Possible formulas. Elements

Formulas or algebraic expressions can be introduced, with or without parameters (up to 4), and with the following **operators** (and in the format that is shown):

Operation	symbol	example	That is....
Addition, subtraction	+ , -	a+5	a+5
Product	*	2*x	2x
Division	/	(x+1)/(x-1)	(x+1)/(x-1)
Potentiation	^	b^2	b ²
Factorial	!	n!	n!

Priority of the operators (in descendent values) ! ^ [/ , *] [+ , -]

examples:

$$3^3! = 3^6 = 729$$

$$3*5^2 = 3*25 = 75$$

$$7+2*3^2 = 7 + 2^9 = 7 + 512 = 519$$

In the event of tie, the priority is from left to right:

$$16/4/2 = 4/2 = 2 \quad (\text{No: } 16/2 = 8)$$

Priority can be modified by means of parenthesis

$$(3^3)! = 9! = 362880$$

$$(3*5)^2 = 15^2 = 225$$

$$((7+2)*3)^2 = (9*3)^2 = 27^2 = 729$$

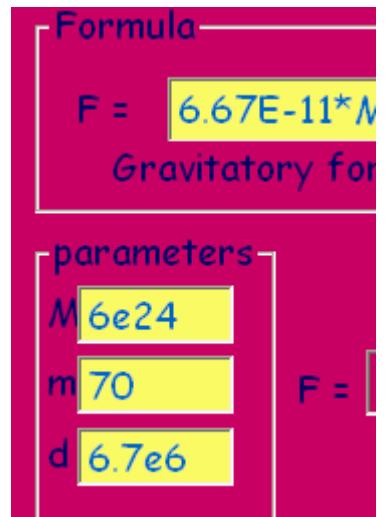
Functions (as $\sin(x)$, $\ln(x)$, etc) cannot be introduced

Parameters (or variables)

Formulas can contain from 0 until 4 parameters or variables that should be simple letters (they cannot be chains of more than one character)

When you accept the expression (button [Ok] or key [Return]) if it contains parameters they will spread the stalls to introduce their values... If not, the result will be shown immediately

Examples of correct expressions:



“Double” formulas

Two formulas can be introduced separated by a sign of equality (=)
This may be useful, for example, to confirm solutions of equations

example:

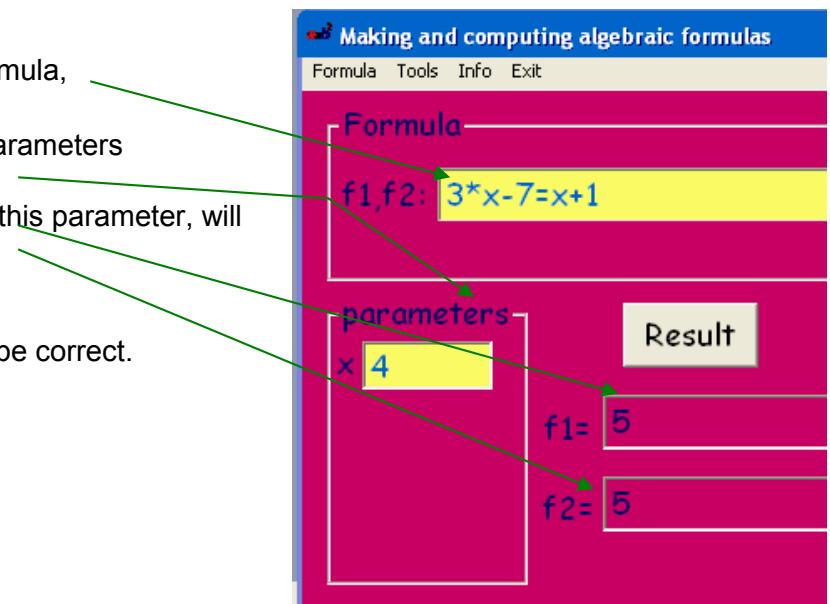
Let us suppose that we have solved the equation $3x-7 = x+1$, and the value **4** has come out as solution

If we want to check the correction of the solution with this utility we will introduce:

- the equation in the stall of the formula,
- the solution to check in that of parameters

And the values of the 2 expressions, for this parameter, will appear in the stalls of the result

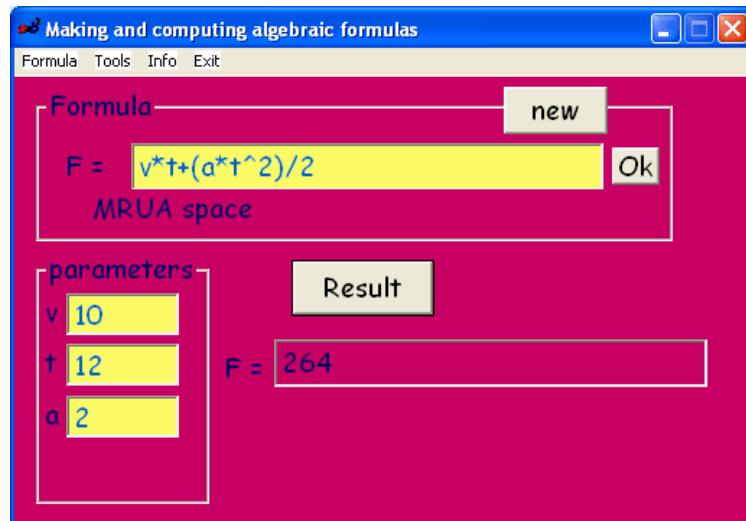
If these values coincide, the solution will be correct.



Obtaining the results

When we have set a formula we can obtainr...

Simple results , for each group of parameters that we introduce:



or....

Charts of values

