

evaluation

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The *evaluation* command calculates the value of a numeric expression that involves only constants (number literal expressions, no references to variables). It evaluates applications of the functions unary $-$, $+$, $-$, $*$, *divides*, *div* and *mod*. All the functions used must have been declared in the [prelude](#), or in sections called [numdefs](#) or *numkit* or *toolkit*.

The result is an expression containing, if the result is negative, one use of unary $-$, then, if the result is an integer, a single number literal, or otherwise one use of *divides* between number literals in lowest terms. The result of the command may be the original expression unchanged. In that case the command still succeeds; the report “*Nothing changed*” is issued, and no new sub-goal is created.

1. Tactic example

“*evaluation*” e_1 e_2

This example applies the *evaluation* command to expressions e_1 and e_2 .

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