Inference at $*$
 of proof for Lemma mul_functionality_wrt_eq:

$\vdash \forall i_1, i_2, j_1, j_2{:}\mathbb{Z}.\ (i_1 = j_1) \Rightarrow (i_2 = j_2) \Rightarrow ((i_1 * i_2) = (j_1 * j_2))$
 by (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_74763_{mul_functionality_wrt_eq}.html