EVENT: Start with the initial **nqthm** theory.

THEOREM: plus-difference-shit
$((z < y) \wedge (b \leq a))$
$\rightarrow \quad (((y + a) - (z + b)) = ((y - z) + (a - b)))$

THEOREM: times-lessp
$(b \not< a) \rightarrow (((x * b) < (x * a)) = \mathbf{f})$

THEOREM: difference-lessp
$(a \not< b) \rightarrow ((b - a) = 0)$

THEOREM: lessp-plus
$((a \not< b) \wedge (c \not< d)) \rightarrow (((a + c) < (b + d)) = \mathbf{f})$

THEOREM: times-difference-dist
$(x * (y - z)) = ((x * y) - (x * z))$

Index

difference-lessp, 1

lessp-plus, 1

plus-difference-shit, 1

times-difference-dist, 1
times-lessp, 1