

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

THEOREM: plus-difference-shit

$$\begin{aligned} & ((z < y) \wedge (b \leq a)) \\ \rightarrow & (((y + a) - (z + b)) = ((y - z) + (a - b))) \end{aligned}$$

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

$$(x * (y - z)) = ((x * y) - (x * z))$$

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