

# l4\_normsp\_1

(TMZrjraC6hV92LD86V2BfWa4UfpTWVqvgS)

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Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c2\_normsp\_1 : \iota$  be given. Let  $k4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v13\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $v2\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v3\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v4\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v5\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v6\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v7\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $v8\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $l1\_rlvect\_1 : \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k16\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $c3\_binop\_2 : \iota$  be given. Let  $k8\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_rlsub\_1 : \iota \Rightarrow \iota$  be given. Let  $c1\_xreal\_1 : \iota$  be given. Let  $k21\_quaterni : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. k1\_funct\_1 (k16\_pre\_poly X0) X1 = k6\_numbers \quad (1)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (2)$$

Assume the following.

$$c3\_binop\_2 = k6\_numbers \quad (3)$$

Assume the following.

$$\begin{aligned} c2\_normsp\_1 = & k8\_funcop\_1 k5\_numbers (u1\_struct\_0 (k1\_rlsub\_1 \\ & (the (\lambda X0 : \iota. (\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 \\ & X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge ((v5\_rlvect\_1 X0) \wedge \\ & ((v6\_rlvect\_1 X0) \wedge ((v7\_rlvect\_1 X0) \wedge ((v8\_rlvect\_1 X0) \wedge (l1\_rlvect\_1 \\ & X0)))))))))))))) k6\_numbers \end{aligned} \quad (4)$$

Assume the following.

$$c1\_xreal\_1 = k6\_numbers \quad (5)$$

Assume the following.

$$k21\_quaterni = k6\_numbers \quad (6)$$

Assume the following.

$$\forall X0. k16\_pre\_poly\ X0 = k8\_funcop\_1\ k5\_numbers\ X0\ k6\_numbers \quad (7)$$

**Theorem 1**

$$k1\_funct\_1\ c2\_normsp\_1\ (k4\_struct\_0\ (the\ (\lambda X0 : \iota. (\neg v2\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v5\_rlvect\_1\ X0) \wedge ((v6\_rlvect\_1\ X0) \wedge ((v7\_rlvect\_1\ X0) \wedge ((v8\_rlvect\_1\ X0) \wedge (l1\_rlvect\_1\ X0)))))))))))))) = k6\_numbers$$