

# l31\_sppol\_1 (TMKNQSP- KVQen7VY38ndytxKag8LYTYBM8rS)

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Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (m1\_subset\_1 (ReplSep (toset (\lambda X1 : \iota. m2\_subset\_1 X1 k1\_numbers \\ & k5\_numbers)) (\lambda X1 : \iota. (r1\_xxreal\_0 np\_1 X1) \wedge (r1\_xxreal\_0 \\ & (k2\_nat\_1 X1 np\_1) (k3\_finseq\_1 X0)))) (\lambda X1 : \iota. k2\_topreal1 \\ & np\_2 X0 X1)) (k1\_zfmisc\_1 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & np\_2)))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (3)$$

## Theorem 1

$$\begin{aligned} & \forall X0. (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1. (m2\_subset\_1 X1 k1\_numbers k5\_numbers) \Rightarrow (m1\_subset\_1 \\ & (ReplSep (toset (\lambda X2 : \iota. m2\_subset\_1 X2 k1\_numbers k5\_numbers)) \\ & (\lambda X2 : \iota. (r1\_xxreal\_0 np\_1 X2) \wedge ((r1\_xxreal\_0 (k2\_nat\_1 \\ & X2 np\_1) (k3\_finseq\_1 X0)) \wedge ((X2 \neq X1) \wedge (X2 \neq k2\_nat\_1 X1 np\_1)))) \\ & (\lambda X2 : \iota. k2\_topreal1 np\_2 X0 X2)) (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ & (u1\_struct\_0 (k15\_euclid np\_2)))))) \quad (4) \end{aligned}$$