

t9\_sppol\_1  
(TMHTGp68RZdF41zjqGmgkxqZL5UaQMWDhsf)

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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  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_sppol\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid X0))) \Rightarrow (\forall X2. ( \\ & m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow \\ & ((r1\_sppol\_1 X0 X1 X2) \Leftrightarrow ((X1 \in X2) \wedge (\forall X3. (m1\_subset\_1 X3 ( \\ & u1\_struct\_0 (k15\_euclid X0))) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (u1\_struct\_0 \\ & (k15\_euclid X0))) \Rightarrow (\neg(X1 \in k1\_rltopsp1 (k15\_euclid X0) X3 X4) \wedge ( \\ & (r1\_tarski (k1\_rltopsp1 (k15\_euclid X0) X3 X4) X2) \wedge ((X1 \neq X3) \wedge ( \\ & X1 \neq X4)))))))))) \quad (2) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid X0))) \Rightarrow (\forall X2. ( \\ & m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow \\ & (\forall X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & X0)))) \Rightarrow (((r1\_sppol\_1 X0 X1 X2) \wedge ((r1\_tarski X3 X2) \wedge (X1 \in X3))) \Rightarrow \\ & (r1\_sppol\_1 X0 X1 X3)))) \end{aligned}$$