

t23\_sprect\_2

(TMPYPpR8QoVBUtTA1oXWkeCbR5JWedneXDA)

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Let  $v1_zfmisc_1 : \iota \Rightarrow o$  be given. 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  $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5_numbers : \iota$  be given. Let  $k4_finseq_1 : \iota \Rightarrow \iota$  be given. Let  $r1_sprect_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3_finseq_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m2\_finseq\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((r1\_sprect\_2 X0 X1) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow \\ & (\forall X3.(m1\_subset\_1 X3 k5\_numbers) \Rightarrow (((X2 \in k4\_finseq\_1 X1) \wedge \\ & (X3 \in k4\_finseq\_1 X1)) \Rightarrow (r1\_sprect\_2 X0 (k3\_finseq\_6 (u1\_struct\_0 \\ & (k15\_euclid np\_2)) X1 X2 X3))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.((\neg v1\_zfmisc\_1 X0) \wedge (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))) \Rightarrow (r1\_sprect\_2 X0 X0) \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((\neg v1\_zfmisc\_1 X0) \wedge (m2\_finseq\_1 X0 (u1\_struct\_0 ( \\ & k15\_euclid np\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k5\_numbers) \Rightarrow \\ & (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow (((X1 \in k4\_finseq\_1 X0) \wedge \\ & (X2 \in k4\_finseq\_1 X0)) \Rightarrow (r1\_sprect\_2 X0 (k3\_finseq\_6 (u1\_struct\_0 \\ & (k15\_euclid np\_2)) X0 X1 X2)))))) \end{aligned}$$