

t8\_jordan1b

(TMPitJvG4xk8Bzxvm8jiKi95YNCvHJGCQ6E)

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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  $np\_2 : \iota$  be given. Let  $v1\_sppol\_1 : \iota \Rightarrow o$  be given. Let  $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v4\_topreal1 : \iota \Rightarrow o$  be given. Let  $k2\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\neg(X0 \neq X1) \wedge (((k17\_euclid X0 = k17\_euclid X1) \vee (k18\_euclid X0 = k18\_euclid \\ & X1)) \wedge (\neg v4\_topreal1 (k2\_finseq\_4 (u1\_struct\_0 (k15\_euclid np\_2)) \\ & X0 X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((k18\_euclid X0 = k18\_euclid X1) \Leftrightarrow (v1\_sppol\_1 (k1\_rltopsp1 (k15\_euclid \\ & np\_2) X0 X1)))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((v1\_sppol\_1 (k1\_rltopsp1 (k15\_euclid np\_2) X0 X1)) \Rightarrow ((X0 = X1) \vee \\ & (v4\_topreal1 (k2\_finseq\_4 (u1\_struct\_0 (k15\_euclid np\_2)) X0 \\ & X1)))))) \end{aligned}$$