

t21\_jordan18  
(TMargSki5KiM4UaaXtoPg6835CvwMjS4eAH)

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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  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_sppol\_1 : \iota \Rightarrow o$  be given. Let  $k1\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_jordan18 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((k17\_euclid X0 = k17\_euclid X1) \Leftrightarrow (v2\_sppol\_1 (k1\_rltopsp1 (k15\_euclid \\ & \quad np\_2) X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & \quad np\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid \\ & np\_2))) \Rightarrow ((k17\_euclid (k1\_jordan18 X1 X0) = k17\_euclid X1) \wedge (k17\_euclid \\ & \quad (k2\_jordan18 X1 X0) = k17\_euclid X1))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid \\ & \quad np\_2))) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & np\_2)))))) \Rightarrow (m1\_subset\_1 (k2\_jordan18 X0 X1) (u1\_struct\_0 (k15\_euclid \\ & \quad np\_2))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid \\ & \quad np\_2))) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & np\_2)))))) \Rightarrow (m1\_subset\_1 (k1\_jordan18 X0 X1) (u1\_struct\_0 (k15\_euclid \\ & \quad np\_2))) \end{aligned} \tag{4}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid \\ & np\_2)))) \Rightarrow (v2\_sppol\_1 (k1\_rltopsp1 (k15\_euclid np\_2) (k1\_jordan18 \\ & X0 X1) (k2\_jordan18 X0 X1)))) \end{aligned}$$