

t2\_jordan\_a (TM-  
SJDh5CzEBJeXLcvxqyNvQGAzRhxd8cSNw)

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Let  $v1\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v2\_rcomp\_1 : \iota \Rightarrow o$  be given. Let  $v2\_membered : \iota \Rightarrow o$  be given. Let  $v3\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_yellow\_1 : \iota \Rightarrow \iota$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $v3\_membered : \iota \Rightarrow o$  be given. Let  $k3\_seq\_4 : \iota \Rightarrow \iota$  be given. Let  $v5\_xxreal\_2 : \iota \Rightarrow o$  be given. Let  $v4\_xxreal\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_rcomp\_1 X0) \Rightarrow (v2\_rcomp\_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow (\forall X1.(v2\_membered X1) \Rightarrow ((r1\_tarski X0 X1) \wedge (v3\_xxreal\_2 X1)) \Rightarrow (v3\_xxreal\_2 X0)) \quad (2)$$

Assume the following.

$$\forall X0.u1\_struct\_0 (k3\_yellow\_1 X0) = k9\_setfam\_1 X0 \quad (3)$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge ((v3\_membered X0) \wedge (v3\_xxreal\_2 X0))) \Rightarrow (\forall X1.((v2\_rcomp\_1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 k1\_numbers))) \Rightarrow ((r1\_tarski X0 X1) \Rightarrow (k3\_seq\_4 X0 \in X1))) \quad (4)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow ((v1\_rcomp\_1 X0) \Rightarrow (v5\_xxreal\_2 X0)) \quad (5)$$

Assume the following.

$$\forall X0.k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers)) \Rightarrow (k5\_seq\_4 X0 = k3\_seq\_4 X0) \quad (7)$$

Assume the following.

$$v3\_membered k1\_numbers \quad (8)$$

Assume the following.

$$\forall X0.(v2\_membered X0) \Rightarrow ((v5\_xxreal\_2 X0) \Leftrightarrow ((v3\_xxreal\_2 X0) \wedge (v4\_xxreal\_2 X0))) \quad (9)$$

Assume the following.

$$\forall X0.(v3\_membered X0) \Rightarrow (v2\_membered X0) \quad (10)$$

Assume the following.

$$\forall X0.(v3\_membered X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v3\_membered X1)) \quad (11)$$

**Theorem 1**

$$\forall X0.((v1\_rcomp\_1 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 k1\_numbers))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 k1\_numbers))) \Rightarrow ((r1\_tarski X1 X0) \Rightarrow (k5\_seq\_4 X1 \in X0)))$$