

t14\_jordan1k  
(TMSi1gFZ1cEtp78UQwrCCwn7Qjz4PkKCC2L)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $r3\_connsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v9\_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 \\ (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow ((r2\_jordan2c \\ X0 X1 X2) \Leftrightarrow ((r3\_connsp\_1 (k15\_euclid X0) (k3\_subset\_1 (u1\_struct\_0 \\ (k15\_euclid X0)) X1) X2) \wedge (\neg v9\_rltopsp1 X2 (k15\_euclid X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 \\ (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow ((r1\_jordan2c \\ X0 X1 X2) \Leftrightarrow ((r3\_connsp\_1 (k15\_euclid X0) (k3\_subset\_1 (u1\_struct\_0 \\ (k15\_euclid X0)) X1) X2) \wedge (v9\_rltopsp1 X2 (k15\_euclid X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \tag{4}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow (\forall X2. \\ (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \Rightarrow \\ (\neg (r3\_connsp\_1 (k15\_euclid X0) (k3\_subset\_1 (u1\_struct\_0 (k15\_euclid \\ X0)) X2) X1) \wedge (\neg r1\_jordan2c X0 X2 X1) \wedge (\neg r2\_jordan2c X0 X2 X1)))) \end{aligned}$$