

t23\_jordan22 (TMV-  
vAV3S92Ap7wLkoAW9WZiD3L5MhT69Tw7)

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Let  $v1\_topreal2 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k18\_euclid : \iota \Rightarrow \iota$  be given. Let  $k1\_jordan21 : \iota \Rightarrow \iota$  be given. Let  $k8\_jordan6 : \iota \Rightarrow \iota$  be given. Let  $k3\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_jordan9 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.((v1\_topreal2 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 \\ (k15\_euclid np\_2)))))) \Rightarrow (\forall X1.(m2\_subset\_1 X1 k1\_numbers \\ k5\_numbers) \Rightarrow ((\neg r1\_xxreal\_0 X1 k6\_numbers) \Rightarrow (k1\_jordan21 (k3\_topreal1 \\ np\_2 (k1\_jordan9 X0 X1)) = k1\_jordan21 (k8\_jordan6 (k3\_topreal1 \\ np\_2 (k1\_jordan9 X0 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1\_topreal2 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 \\ (k15\_euclid np\_2)))))) \Rightarrow (\forall X1.(m2\_subset\_1 X1 k1\_numbers \\ k5\_numbers) \Rightarrow (\neg r1\_xxreal\_0 (k18\_euclid (k1\_jordan21 (k3\_topreal1 \\ np\_2 (k1\_jordan9 X0 X1)))) (k18\_euclid (k1\_jordan21 X0)))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_topreal2 X0) \wedge (m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 \\ (k15\_euclid np\_2)))))) \Rightarrow (\forall X1.(m2\_subset\_1 X1 k1\_numbers \\ k5\_numbers) \Rightarrow (\neg (\neg r1\_xxreal\_0 X1 k6\_numbers) \wedge (r1\_xxreal\_0 (k18\_euclid \\ (k1\_jordan21 (k8\_jordan6 (k3\_topreal1 np\_2 (k1\_jordan9 X0 X1)))))) \\ (k18\_euclid (k1\_jordan21 X0)))))) \end{aligned}$$