

t6_jordan23 (TMPNJmDaqK- wNBi5WyKG7Lz6exeSLtkdevX2)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_jordan23 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_jordan23 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m2_finseq_1 X1 X0) \Rightarrow ((v2_jordan23 X1) \Leftrightarrow \\ (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 np_1 \\ X2) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 X1) X2) \wedge (k7_partfun1 X0 X1 X2 = \\ k7_partfun1 X0 X1 (k2_nat_1 X2 np_1))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge (\\ (v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_finseq_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge (\\ (v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\
& (((k3_finseq_1 X0 \neq np_2) \Rightarrow ((v3_jordan23 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\
& X1 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 np_1 X1) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 \\
& X0) X1) \wedge (k1_funct_1 X0 X1 = k1_funct_1 X0 (k2_nat_1 X1 np_1)))))) \wedge \\
& ((k3_finseq_1 X0 = np_2) \Rightarrow (v3_jordan23 X0)))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\
& ((v2_jordan23 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow (\\
& \neg(r1_xxreal_0 np_1 X1) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 X0) X1) \wedge \\
& (k1_funct_1 X0 X1 = k1_funct_1 X0 (k2_nat_1 X1 np_1))))))
\end{aligned} \tag{6}$$

Theorem 1

$$\begin{aligned}
& \forall X0. \forall X1.(m2_finseq_1 X1 X0) \Rightarrow ((v3_jordan23 X1) \Leftrightarrow \\
& ((k3_finseq_1 X1 \neq np_2) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow \\
& (\neg(r1_xxreal_0 np_1 X2) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 X1) X2) \wedge \\
& (k7_partfun1 X0 X1 X2 = k7_partfun1 X0 X1 (k2_nat_1 X2 np_1))))))
\end{aligned}$$