

t7_jordan23 (TMdKARD- ByvDWo9j8FdiK1qkLtxHCLTPjRbh)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v2_jordan23 : \iota \Rightarrow o$ be given. Let $v3_jordan23 : \iota \Rightarrow o$ 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 $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & (((k3_finseq_1 X0 \neq np_2) \Rightarrow ((v3_jordan23 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 np_1 X1) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 \\ & X0) X1) \wedge (k1_funct_1 X0 X1 = k1_funct_1 X0 (k2_nat_1 X1 np_1))))))) \wedge \\ & ((k3_finseq_1 X0 = np_2) \Rightarrow (v3_jordan23 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & ((v2_jordan23 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow (\\ & \neg(r1_xxreal_0 np_1 X1) \wedge ((\neg r1_xxreal_0 (k3_finseq_1 X0) X1) \wedge \\ & (k1_funct_1 X0 X1 = k1_funct_1 X0 (k2_nat_1 X1 np_1)))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & ((k3_finseq_1 X0 \neq np_2) \Rightarrow ((v2_jordan23 X0) \Leftrightarrow (v3_jordan23 X0))) \end{aligned}$$