

t9_jordan1h

(TMKe2eaUkUYtEDvbjcDkdqGJFW5Sm56Tgqd)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v3_orders_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k7_pre_poly : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r3_orders_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ X0))) \Rightarrow (\forall X2. ((v1_partfun1 X2 X0) \wedge (v1_relat_2 X2) \wedge ((v4_relat_2 \\ X2) \wedge ((v8_relat_2 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ X0 X0)))))) \Rightarrow ((r3_orders_1 X2 X1) \Rightarrow (k3_finseq_1 (k7_pre_poly \\ X0 X1 X2) = k5_card_1 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ ((v1_partfun1 X2 X0) \wedge (v1_relat_2 X2) \wedge ((v4_relat_2 X2) \wedge ((v8_relat_2 \\ X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow (\\ (v3_orders_1 X2) \Rightarrow (r3_orders_1 X2 X1))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_finset_1 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (\forall X2. ((v1_partfun1 \\ X2 X0) \wedge (v1_relat_2 X2) \wedge ((v4_relat_2 X2) \wedge ((v8_relat_2 X2) \wedge (\\ (v3_orders_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\ X0)))))) \Rightarrow (k3_finseq_1 (k7_pre_poly X0 X1 X2) = k5_card_1 X1))) \end{aligned}$$