

t6_fsm_3 (TM-
Rkz2B4yJqdF1XmKFc6KcnmnaP5r8ww7Sr)

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Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_ordinal4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_afinsq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v5_ordinal1 \\ & X2) \wedge ((v1_funct_1 X2) \wedge (v1_finset_1 X2)))) \Rightarrow (\forall X3. ((v1_relat_1 \\ & X3) \wedge ((v5_ordinal1 X3) \wedge ((v1_funct_1 X3) \wedge (v1_finset_1 X3)))) \Rightarrow \\ & ((k1_ordinal4 (k5_afinsq_1 X0) X2 = k1_ordinal4 (k5_afinsq_1 X1) \\ & X3) \Rightarrow ((X0 = X1) \wedge (X2 = X3)))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v5_ordinal1 X2) \wedge ((v1_relat_1 \\ & X2) \wedge ((v1_funct_1 X2) \wedge (v1_finset_1 X2)))) \Rightarrow (\forall X3. ((v5_ordinal1 \\ & X3) \wedge ((v1_relat_1 X3) \wedge ((v1_funct_1 X3) \wedge (v1_finset_1 X3)))) \Rightarrow \\ & ((k1_ordinal4 (k5_afinsq_1 X0) X2 = k1_ordinal4 (k5_afinsq_1 X1) \\ & X3) \Rightarrow ((X0 = X1) \wedge (X2 = X3)))) \end{aligned}$$