

t16_ftacell1 (TMMB-
VzgjmkS9BiVCR7bFX9iDnS1oEXzXmgR)

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Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_twoscomp : \iota$ be given. Let $k3_msafree2 : \iota \Rightarrow \iota$ be given. Let $k25_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_msafree2 : \iota \Rightarrow \iota$ be given. Let $k7_ftacell1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1_xtuple_0 X0) \Rightarrow (\forall X1.(\neg v1_xtuple_0 X1) \Rightarrow \\ & (\forall X2.(\neg v1_xtuple_0 X2) \Rightarrow (\forall X3.(\neg v1_xtuple_0 X3) \Rightarrow \\ & (\forall X4.\neg(X4 \neq k4_tarski (k10_finseq_1 X3 (k24_gfacirc1 X0 \\ & X1 X2)) k4_twoscomp) \wedge (\neg X4 \in k3_msafree2 (k25_gfacirc1 X0 X1 X2))) \wedge \\ & (k2_msafree2 (k7_ftacell1 X0 X1 X2 X3 X4) \neq k3_enumset1 X0 X1 X2 X3 \\ & X4)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & (X5 = k3_enumset1 X0 X1 X2 X3 X4) \Leftrightarrow (\forall X6.(X6 \in X5) \Leftrightarrow (\neg(X6 \neq X0) \wedge \\ & ((X6 \neq X1) \wedge ((X6 \neq X2) \wedge ((X6 \neq X3) \wedge (X6 \neq X4)))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xtuple_0 X0) \Rightarrow (\forall X1.(\neg v1_xtuple_0 X1) \Rightarrow \\ & (\forall X2.(\neg v1_xtuple_0 X2) \Rightarrow (\forall X3.(\neg v1_xtuple_0 X3) \Rightarrow \\ & (\forall X4.\neg(X4 \neq k4_tarski (k10_finseq_1 X3 (k24_gfacirc1 X0 \\ & X1 X2)) k4_twoscomp) \wedge (\neg X4 \in k3_msafree2 (k25_gfacirc1 X0 X1 X2))) \wedge \\ & (\neg(X0 \in k2_msafree2 (k7_ftacell1 X0 X1 X2 X3 X4)) \wedge ((X1 \in k2_msafree2 \\ & (k7_ftacell1 X0 X1 X2 X3 X4)) \wedge ((X2 \in k2_msafree2 (k7_ftacell1 X0 \\ & X1 X2 X3 X4)) \wedge ((X3 \in k2_msafree2 (k7_ftacell1 X0 X1 X2 X3 X4)) \wedge (X4 \in \\ & k2_msafree2 (k7_ftacell1 X0 X1 X2 X3 X4)))))))))) \end{aligned}$$