

t16_aff_1

(TMV2zoWs8dMFowBVXjJxntEuPdoTqAJ1kse)

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Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v1_diraf : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5. \\ & (m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow (((r1_aff_1 X0 X3 X4 X1) \wedge ((r1_aff_1 \\ & X0 X3 X4 X2) \wedge (r1_aff_1 X0 X1 X2 X5)))) \Rightarrow ((X1 = X2) \vee (r1_aff_1 X0 X3 X4 \\ & X5))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (k2_aff_1 X0 X1 X2 = k1_aff_1 X0 X1 X2) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (m1_subset_1 (k2_aff_1 X0 X1 X2) (k1_zfmisc_1 (u1_struct_0 X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski\ X0\ X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow (X2 \in X1)) \quad (6)$$

Assume the following.

$$\begin{aligned} &\forall X0.((\neg v7_struct_0\ X0)\wedge((v1_diraf\ X0)\wedge(l1_analoaf\ X0)))\Rightarrow \\ &(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ X0))\Rightarrow(\forall X2.(m1_subset_1 \\ &X2\ (u1_struct_0\ X0))\Rightarrow(\forall X3.(m1_subset_1\ X3\ (k1_zfmisc_1 \\ &(u1_struct_0\ X0)))\Rightarrow((X3 = k1_aff_1\ X0\ X1\ X2)\Leftrightarrow(\forall X4.(m1_subset_1 \\ &X4\ (u1_struct_0\ X0))\Rightarrow((X4 \in X3)\Leftrightarrow(r1_aff_1\ X0\ X1\ X2\ X4))))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} &\forall X0.\forall X1.\forall X2.(((\neg v7_struct_0\ X0)\wedge((v1_diraf \\ &X0)\wedge(l1_analoaf\ X0)))\wedge((m1_subset_1\ X1\ (u1_struct_0\ X0))\wedge(m1_subset_1 \\ &X2\ (u1_struct_0\ X0))))\Rightarrow(k2_aff_1\ X0\ X1\ X2 = k2_aff_1\ X0\ X2\ X1) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} &\forall X0.((\neg v7_struct_0\ X0)\wedge((v1_diraf\ X0)\wedge(l1_analoaf\ X0)))\Rightarrow \\ &(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ X0))\Rightarrow(\forall X2.(m1_subset_1 \\ &X2\ (u1_struct_0\ X0))\Rightarrow(\forall X3.(m1_subset_1\ X3\ (u1_struct_0 \\ &X0))\Rightarrow(\forall X4.(m1_subset_1\ X4\ (u1_struct_0\ X0))\Rightarrow(((X1 \in k2_aff_1 \\ &X0\ X2\ X3)\wedge(X4 \in k2_aff_1\ X0\ X2\ X3))\Rightarrow((X1 = X4)\vee(r1_tarski\ (k2_aff_1 \\ &X0\ X1\ X4)\ (k2_aff_1\ X0\ X2\ X3)))))))) \end{aligned}$$