

t78_abcmiz_1

(TMbx22CfBfYa9iRgW4EYZZYxnaMEUtd8z2o)

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Let $v1_instalg1 : \iota \Rightarrow o$ be given. Let $v1_abcmiz_1 : \iota \Rightarrow o$ be given. Let $v3_abcmiz_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $v9_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_abcmiz_1 : \iota \Rightarrow \iota$ 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 $k38_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k41_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k40_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k42_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $m3_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (k1_xtuple_0 (k4_tarski X0 X1) = X0) \wedge (k2_xtuple_0 (k4_tarski X0 X1) = X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_instalg1 X2) \wedge ((v1_abcmiz_1 X2) \wedge ((v3_abcmiz_1 X2) \wedge (l1_msualg_1 X2)))) \Rightarrow ((m3_abcmiz_1 (k4_tarski X0 X1) X2) \Leftrightarrow (((v1_finset_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k38_abcmiz_1 X2)))) \wedge ((v9_abcmiz_1 X1 X2) \wedge (m1_abcmiz_1 X1 X2 (k12_abcmiz_1 X2))))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 X0) \wedge (l1_msualg_1 X0)))) \wedge (m3_abcmiz_1 X1 X0)) \Rightarrow (k42_abcmiz_1 X0 X1 = k2_xtuple_0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 X0) \wedge (l1_msualg_1 X0)))) \wedge (m3_abcmiz_1 X1 X0)) \Rightarrow (k41_abcmiz_1 X0 X1 = k1_xtuple_0 X1) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_instalg1\ X0) \wedge ((v1_abcmiz_1 \\ & X0) \wedge ((v3_abcmiz_1\ X0) \wedge (l1_msualg_1\ X0)))) \wedge (((v1_finset_1\ X1) \wedge \\ & (m1_subset_1\ X1\ (k1_zfmisc_1\ (k38_abcmiz_1\ X0)))) \wedge ((v9_abcmiz_1 \\ & X2\ X0) \wedge (m1_abcmiz_1\ X2\ X0\ (k12_abcmiz_1\ X0)))))) \Rightarrow (k40_abcmiz_1 \\ & X0\ X1\ X2 = k4_tarski\ X1\ X2) \end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. ((v9_abcmiz_1\ X1\ X0) \wedge (m1_abcmiz_1 \\ & X1\ X0\ (k12_abcmiz_1\ X0))) \Rightarrow (\forall X2. ((v1_finset_1\ X2) \wedge (m1_subset_1 \\ & X2\ (k1_zfmisc_1\ (k38_abcmiz_1\ X0)))) \Rightarrow ((k41_abcmiz_1\ X0\ (k40_abcmiz_1 \\ & X0\ X2\ X1) = X2) \wedge (k42_abcmiz_1\ X0\ (k40_abcmiz_1\ X0\ X2\ X1) = X1)))) \end{aligned}$$