

t81_abc Miz_1 (TMQZb-
BQfch1KF6k31PxzCesfdz5CWW5xzGL)

October 27, 2020

Let $v1_instalg1 : \iota \Rightarrow o$ be given. Let $v1_abc Miz_1 : \iota \Rightarrow o$ be given. Let $v3_abc Miz_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $m3_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k41_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k42_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k40_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k38_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v9_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $u3_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_abc Miz_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m3_abc Miz_1 X1 X0) \Rightarrow (X1 = \\ & k40_abc Miz_1 X0 (k41_abc Miz_1 X0 X1) (k42_abc Miz_1 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_instalg1 X1) \wedge ((v1_abc Miz_1 X1) \wedge (\\ & (v3_abc Miz_1 X1) \wedge (l1_msualg_1 X1)))) \Rightarrow ((m3_abc Miz_1 X0 X1) \Leftrightarrow (\\ & \exists X2. ((v1_finset_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k38_abc Miz_1 \\ & X1)))) \wedge (\exists X3. ((v9_abc Miz_1 X3 X1) \wedge (m1_abc Miz_1 X3 X1 (k12_abc Miz_1 \\ & X1))) \wedge (X0 = k1_domain_1 (k1_zfmisc_1 (k38_abc Miz_1 X1)) (k3_card_3 \\ & (u3_msualg_1 X1 (k1_msafree3 X1 (k28_abc Miz_1 X1)))) X2 X3))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1. (m3_abc Miz_1 X1 X0) \Rightarrow (\forall X2. \\ & (m3_abc Miz_1 X2 X0) \Rightarrow (((k41_abc Miz_1 X0 X1 = k41_abc Miz_1 X0 X2) \wedge \\ & (k42_abc Miz_1 X0 X1 = k42_abc Miz_1 X0 X2)) \Rightarrow (X1 = X2)))) \end{aligned}$$