

t72_abc Miz_1

(TMJtykxsuWhPxEurrsLjyeUoo3qDS2E24r9)

October 27, 2020

Let $v1_instal\!g_1 : \iota \Rightarrow o$ be given. Let $v1_abc\!miz_1 : \iota \Rightarrow o$ be given. Let $v3_abc\!miz_1 : \iota \Rightarrow o$ be given. Let $l1_msual\!g_1 : \iota \Rightarrow o$ be given. Let $m3_abc\!miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_fin\!set_1 : \iota \Rightarrow o$ 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 $u3_msual\!g_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $k39_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abc\!miz_1 X0) \wedge ((v3_abc\!miz_1 X0) \wedge (l1_msual\!g_1 X0)))) \Rightarrow (\forall X1.(m3_abc\!miz_1 X1 X0) \Leftrightarrow (X1 \in k39_abc\!miz_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abc\!miz_1 X0) \wedge ((v3_abc\!miz_1 X0) \wedge (l1_msual\!g_1 X0)))) \Rightarrow (k39_abc\!miz_1 X0 = ReplSep2 (toset (\lambda X1 : \iota.m1_abc\!miz_1 X1 X0 (k12_abc\!miz_1 X0))) (\lambda X1 : \iota.toset (\lambda X2 : \iota.(v1_fin\!set_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k38_abc\!miz_1 X0)))) (\lambda X1 : \iota.\lambda X2 : \iota.v9_abc\!miz_1 X1 X0) (\lambda X1 : \iota.\lambda X2 : \iota.k1_domain_1 (k1_zfmisc_1 (k38_abc\!miz_1 X0)) (k3_card_3 (u3_msual\!g_1 X0 (k1_msafree3 X0 (k28_abc\!miz_1 X0)))) X2 X1)) \quad (2)$$

Theorem 1

$$\forall X0.\forall X1.((v1_instal\!g_1 X1) \wedge ((v1_abc\!miz_1 X1) \wedge ((v3_abc\!miz_1 X1) \wedge (l1_msual\!g_1 X1)))) \Rightarrow ((m3_abc\!miz_1 X0 X1) \Leftrightarrow (\exists X2.((v1_fin\!set_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k38_abc\!miz_1 X1)))) \wedge (\exists X3.((v9_abc\!miz_1 X3 X1) \wedge (m1_abc\!miz_1 X3 X1 (k12_abc\!miz_1 X1))) \wedge (X0 = k1_domain_1 (k1_zfmisc_1 (k38_abc\!miz_1 X1)) (k3_card_3 (u3_msual\!g_1 X1 (k1_msafree3 X1 (k28_abc\!miz_1 X1)))) X2 X3))))$$