

## t108\_abc Miz\_1

(TMHsoN8e8pA9cjXZetNrUTnqb7WaGA77woX)

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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  $v4\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k28\_abc Miz_1 : \iota \Rightarrow \iota$  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  $v10\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k40\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_subset_1 : \iota \Rightarrow \iota$  be given. Let  $k38\_abc Miz_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset_1 : \iota \Rightarrow \iota \Rightarrow o$  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  $k45\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole_0 : \iota$  be given. Let  $k47\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole_0 : \iota \Rightarrow o$  be given. Let  $u1\_struct_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_finset_1 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc_1 : \iota \Rightarrow \iota$  be given. Let  $m3\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instal g_1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge ((v3\_abc Miz_1 \\ & X0) \wedge (l1\_msual g_1 X0)))) \Rightarrow (\forall X1.(m1\_subset_1 X1 (k3\_card_3 \\ & (u3\_msual g_1 X0 (k1\_msafree3 X0 (k28\_abc Miz_1 X0)))))) \Rightarrow ((v4\_abc Miz_1 \\ & X1 X0 (k28\_abc Miz_1 X0)) \Leftrightarrow (k45\_abc Miz_1 X0 X1 = k1\_xboole_0)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instal g_1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge ((v3\_abc Miz_1 \\ & X0) \wedge (l1\_msual g_1 X0)))) \Rightarrow (\forall X1.((v9\_abc Miz_1 X1 X0) \wedge (m1\_abc Miz_1 \\ & X1 X0 (k12\_abc Miz_1 X0))) \Rightarrow (k47\_abc Miz_1 X0 (k40\_abc Miz_1 X0 (k1\_subset_1 \\ & (k38\_abc Miz_1 X0)) X1) = k45\_abc Miz_1 X0 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.v1\_xboole_0 (k1\_subset_1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((v1\_instal g_1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge \\ & ((v3\_abc Miz_1 X0) \wedge (l1\_msual g_1 X0)))) \wedge (m1\_subset_1 X1 (u1\_struct_0 \\ & X0))) \Rightarrow (\forall X2.(m1\_abc Miz_1 X2 X0 X1) \Rightarrow (m1\_subset_1 X2 (k3\_card_3 \\ & (u3\_msual g_1 X0 (k1\_msafree3 X0 (k28\_abc Miz_1 X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. & (((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1 \\ & X0) \wedge ((v3\_abcmiz\_1\ X0) \wedge (l1\_msualg\_1\ X0)))) \wedge (((v1\_finset\_1\ X1) \wedge \\ & (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k38\_abcmiz\_1\ X0)))) \wedge ((v9\_abcmiz\_1 \\ & X2\ X0) \wedge (m1\_abcmiz\_1\ X2\ X0\ (k12\_abcmiz\_1\ X0)))))) \Rightarrow (m3\_abcmiz\_1 \\ & (k40\_abcmiz\_1\ X0\ X1\ X2)\ X0) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. m1\_subset\_1\ (k1\_subset\_1\ X0)\ (k1\_zfmisc\_1\ X0) \quad (6)$$

Assume the following.

$$\forall X0. ((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge (l1\_msualg\_1\ X0))) \Rightarrow (m1\_subset\_1\ (k12\_abcmiz\_1\ X0)\ (u1\_struct\_0\ X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0. & ((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge ((v3\_abcmiz\_1 \\ & X0) \wedge (l1\_msualg\_1\ X0)))) \Rightarrow (\forall X1. (m3\_abcmiz\_1\ X1\ X0) \Rightarrow ((v10\_abcmiz\_1 \\ & X1\ X0) \Leftrightarrow (k47\_abcmiz\_1\ X0\ X1 = k1\_xboole\_0))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0. (v1\_xboole\_0\ X0) \Rightarrow (v1\_finset\_1\ X0) \quad (9)$$

**Theorem 1**

$$\begin{aligned} \forall X0. & ((v1\_instalg1\ X0) \wedge ((v1\_abcmiz\_1\ X0) \wedge ((v3\_abcmiz\_1 \\ & X0) \wedge (l1\_msualg\_1\ X0)))) \Rightarrow (\forall X1. ((v4\_abcmiz\_1\ X1\ X0\ (k28\_abcmiz\_1 \\ & X0)) \wedge ((v9\_abcmiz\_1\ X1\ X0) \wedge (m1\_abcmiz\_1\ X1\ X0\ (k12\_abcmiz\_1\ X0)))) \Rightarrow \\ & (v10\_abcmiz\_1\ (k40\_abcmiz\_1\ X0\ (k1\_subset\_1\ (k38\_abcmiz\_1\ X0)) \\ & X1)\ X0)) \end{aligned}$$