

t7\_abc Miz\_0 (TM-  
STV7mPk3T Aquq64DQkvCDhzU5sBeTrm7Q)

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Let  $l2\_abc Miz_0 : \iota \Rightarrow o$  be given. Let  $g2\_abc Miz_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_struct_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $u1\_orders_2 : \iota \Rightarrow \iota$  be given. Let  $u2\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $u3\_abc Miz_0 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_abc Miz_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub_1 : \iota \Rightarrow \iota$  be given. Let  $l1\_abc Miz_0 : \iota \Rightarrow o$  be given. Let  $l1\_orders_2 : \iota \Rightarrow o$  be given. Let  $k1\_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. ((m1\_subset_1 \\ & X2 (k1\_zfmisc_1 (k2\_zfmisc_1 X0 X0))) \wedge (((v1\_funct_1 X3) \wedge ((v1\_funct_2 \\ & X3 X1 X1) \wedge (m1\_subset_1 X3 (k1\_zfmisc_1 (k2\_zfmisc_1 X1 X1)))))) \wedge \\ & ((v1\_funct_1 X4) \wedge ((v1\_funct_2 X4 X0 (k5\_finsub_1 X1)) \wedge (m1\_subset_1 \\ & X4 (k1\_zfmisc_1 (k2\_zfmisc_1 X0 (k5\_finsub_1 X1))))))) \Rightarrow (\forall X5. \\ & \forall X6. \forall X7. \forall X8. \forall X9. (g2\_abc Miz_0 X0 X1 \\ & X2 X3 X4 = g2\_abc Miz_0 X5 X6 X7 X8 X9) \Rightarrow ((X0 = X5) \wedge ((X1 = X6) \wedge ((X2 = X7) \wedge \\ & ((X3 = X8) \wedge (X4 = X9)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l2\_abc Miz_0 X0) \Rightarrow ((v1\_funct_1 (u3\_abc Miz_0 X0)) \wedge \\ & ((v1\_funct_2 (u3\_abc Miz_0 X0) (u1\_struct_0 X0) (k5\_finsub_1 ( \\ & u1\_abc Miz_0 X0))) \wedge (m1\_subset_1 (u3\_abc Miz_0 X0) (k1\_zfmisc_1 \\ & (k2\_zfmisc_1 (u1\_struct_0 X0) (k5\_finsub_1 (u1\_abc Miz_0 X0))))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_abc Miz_0 X0) \Rightarrow ((v1\_funct_1 (u2\_abc Miz_0 X0)) \wedge \\ & ((v1\_funct_2 (u2\_abc Miz_0 X0) (u1\_abc Miz_0 X0) (u1\_abc Miz_0 X0)) \wedge \\ & (m1\_subset_1 (u2\_abc Miz_0 X0) (k1\_zfmisc_1 (k2\_zfmisc_1 (u1\_abc Miz_0 \\ & X0) (u1\_abc Miz_0 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1\_orders_2 X0) \Rightarrow (m1\_subset_1 (u1\_orders_2 X0) (k1\_zfmisc_1 \\ & (k2\_zfmisc_1 (u1\_struct_0 X0) (u1\_struct_0 X0)))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow ((l1\_orders\_2 X0) \wedge (l1\_abcmiz\_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(l2\_abcmiz\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (k2\_abcmiz\_0 X0 X1 = k1\_funct\_1 (u3\_abcmiz\_0 X0) X1)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(l2\_abcmiz\_0 X0) \Rightarrow (\forall X1.(l2\_abcmiz\_0 X1) \Rightarrow (( \\ & \quad g2\_abcmiz\_0 (u1\_struct\_0 X0) (u1\_abcmiz\_0 X0) (u1\_orders\_2 X0) \\ & \quad (u2\_abcmiz\_0 X0) (u3\_abcmiz\_0 X0) = g2\_abcmiz\_0 (u1\_struct\_0 X1) \\ & \quad (u1\_abcmiz\_0 X1) (u1\_orders\_2 X1) (u2\_abcmiz\_0 X1) (u3\_abcmiz\_0 \\ & \quad X1)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. \\ & \quad (m1\_subset\_1 X3 (u1\_struct\_0 X1)) \Rightarrow ((X2 = X3) \Rightarrow (k2\_abcmiz\_0 X0 X2 = \\ & \quad k2\_abcmiz\_0 X1 X3)))))) \end{aligned}$$