

t42_valued_2
(TMcB5rVTduiriM4WABoQvFzd4GwMKg62CAs)

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Let $v1_valued_2 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_valued_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_valued_2 : \iota \Rightarrow \iota$ be given. Let $k1_valued_2 : \iota \Rightarrow \iota$ be given. Let $k15_valued_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (v1_valued_2 X1) \Rightarrow (\forall X2. ((v1_funct_1 \\ & X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (k16_valued_2 \\ & X0 (k2_valued_2 (k1_valued_2 X1)) (k16_valued_2 X0 X1 X2) = X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_valued_2 X1) \wedge ((v1_funct_1 \\ & X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (k16_valued_2 \\ & X0 X1 X2 = k15_valued_2 X2)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. v1_valued_2 (k2_valued_2 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_valued_2 X1) \wedge ((v1_funct_1 \\ & X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow ((v1_funct_1 \\ & (k16_valued_2 X0 X1 X2)) \wedge (m1_subset_1 (k16_valued_2 X0 X1 X2) (\\ & k1_zfmisc_1 (k2_zfmisc_1 X0 (k2_valued_2 (k1_valued_2 X1)))))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1_valued_2 X2) \Rightarrow (\forall X3. \\ & (v1_valued_2 X3) \Rightarrow (\forall X4. ((v1_funct_1 X4) \wedge (m1_subset_1 \\ & X4 (k1_zfmisc_1 (k2_zfmisc_1 X0 X2)))) \Rightarrow (\forall X5. ((v1_funct_1 \\ & X5) \wedge (m1_subset_1 X5 (k1_zfmisc_1 (k2_zfmisc_1 X1 X3)))) \Rightarrow ((k16_valued_2 \\ & X0 X2 X4 = k16_valued_2 X1 X3 X5) \Rightarrow (X4 = X5)))))) \end{aligned}$$