

t77_funct_2
(TMWKADjbaP3aiSZaXizzsLopZhnnkJWKjwz)

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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 $k1_xboole_0 : \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & \quad X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (\forall X3. ((v1_funct_1 \\ & \quad X3) \wedge ((v1_funct_2 X3 X0 X1) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 \\ & \quad X0 X1)))))) \Rightarrow (((X1 = k1_xboole_0) \Rightarrow (X0 = k1_xboole_0)) \Rightarrow ((r1_partfun1 \\ & \quad X2 X3) \Leftrightarrow (\forall X4. (X4 \in k1_relset_1 X0 X2) \Rightarrow (k1_funct_1 X2 X4 = k1_funct_1 \\ & \quad X3 X4)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & \quad X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (\neg((X1 = k1_xboole_0) \Rightarrow \\ & \quad (X0 = k1_xboole_0)) \wedge (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 \\ & \quad X3 X0 X1) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow \\ & \quad (\exists X4. (X4 \in k1_relset_1 X0 X2) \wedge (k1_funct_1 X3 X4 \neq k1_funct_1 \\ & \quad X2 X4)))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & \quad X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (\neg((X1 = k1_xboole_0) \Rightarrow \\ & \quad (X0 = k1_xboole_0)) \wedge (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 \\ & \quad X3 X0 X1) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow \\ & \quad (\neg r1_partfun1 X2 X3))) \end{aligned}$$