

t14_orders_1

(TMP8yDkZHC7WD5PCd4aNUQxGvgMWYPDXaMm)

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Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X1 X0))) \Rightarrow ((\forall X3. \neg (X3 \in X1) \wedge (\forall X4. \neg k4_tarski \\ & X3 X4 \in X2)) \Leftrightarrow (k1_relset_1 X1 X2 = X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_2 X2) \wedge ((v4_relat_2 \\ & X2) \wedge ((v8_relat_2 X2) \wedge ((v1_partfun1 X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0))))))) \Rightarrow ((X1 \in X0) \Rightarrow (k4_tarski X1 X1 \in X2)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1))) \Rightarrow ((\forall X3. \neg (X3 \in X1) \wedge (\forall X4. \neg k4_tarski \\ & X4 X3 \in X2)) \Leftrightarrow (k2_relset_1 X1 X2 = X1)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_2 X1) \wedge ((v4_relat_2 X1) \wedge ((v8_relat_2 \\ & X1) \wedge ((v1_partfun1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0))))))) \Rightarrow ((k1_relset_1 X0 X1 = X0) \wedge (k2_relset_1 X0 X1 = X0)) \end{aligned}$$