

t75_abcmiz_0

(TMLaCxbm99Z5Cz2qhDNJ2n1SskE2qCVVvk6)

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Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $v4_rewrite1 : \iota \Rightarrow o$ be given. Let $v2_rewrite1 : \iota \Rightarrow o$ be given. Let $k2_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r4_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_rewrite1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k2_zfmisc_1 X0 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (\forall X3. \\ (r1_rewrite1 X1 X2 X3) \Rightarrow (X3 \in X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v2_rewrite1 X0) \wedge (v4_rewrite1 X0))) \Rightarrow (\forall X1. r4_rewrite1 X0 X1 (k2_rewrite1 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. \forall X2. (r4_rewrite1 X0 X1 X2) \Leftrightarrow ((r3_rewrite1 X0 X2) \wedge (r1_rewrite1 X0 X1 X2))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k2_zfmisc_1 X0 X0))) \Rightarrow (((v4_rewrite1 X1) \wedge (v2_rewrite1 X1)) \Rightarrow \\ (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (k2_rewrite1 X1 X2 \in X0)))) \end{aligned}$$