

t39_zfrefle1

(TMYY32YtRt71SvGFtZQv5dec9nUr2wCpmMk)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes2 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_ordinal2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $r2_zfrefle1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_zfrefle1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow ((r3_zfrefle1 X0 X1) \Rightarrow (r2_zfrefle1 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\neg (k4_ordinal1 \in X0) \wedge (\forall X1.((v3_ordinal1 X1) \wedge (m1_subset_1 X1 X0)) \Rightarrow (\forall X2.(\neg v1_xboole_0 X2) \Rightarrow (\neg (r2_ordinal2 X1 k4_ordinal1) \wedge ((X2 = k4_classes1 X1) \wedge (r3_zfrefle1 X2 X0))))))) \quad (2)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (\neg (k4_ordinal1 \in X0) \wedge (\forall X1.((v3_ordinal1 X1) \wedge (m1_subset_1 X1 X0)) \Rightarrow (\forall X2.(\neg v1_xboole_0 X2) \Rightarrow (\neg (r2_ordinal2 X1 k4_ordinal1) \wedge ((X2 = k4_classes1 X1) \wedge (r2_zfrefle1 X2 X0)))))))$$