

t32_classes2 (TMJWF-
bDv22aLYwGTWkeFsdo8btWQaWrCMW2)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_classes1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (\forall X1.(v1_card_1 X1) \Rightarrow ((X0 \in X1) \Leftrightarrow ((r1_ordinal1 X0 X1) \wedge (X0 \neq X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.((v2_classes1 X1) \wedge (X0 \in k2_ordinal1 X1)) \Rightarrow ((k1_card_1 (k4_classes1 X0) \in k1_card_1 X1) \wedge (k4_classes1 X0 \in X1))) \quad (2)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (3)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.((v2_classes1 X1) \wedge (X0 \in k2_ordinal1 X1)) \Rightarrow (r1_ordinal1 (k1_card_1 (k4_classes1 X0)) (k1_card_1 X1)))$$