

t11_classes2
(TMaeSVy6n6X64Q4a63tGMuvcP6mmQrA2eWA)

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Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $r2_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v2_classes1 X0) \Rightarrow (k2_ordinal1 X0 = k1_card_1 X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_classes1 X0) \wedge (X1 \in X0)) \Rightarrow ((\neg r2_tarSKI X1 X0) \wedge (k1_card_1 X1 \in k1_card_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k2_ordinal1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow ((X2 \in X0) \wedge (v3_ordinal1 X2))) \quad (3)$$

Assume the following.

$$\forall X0.(v2_classes1 X0) \Rightarrow (v1_classes1 X0) \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.((v2_classes1 X0) \wedge (X1 \in X0)) \Rightarrow (k1_card_1 X1 \in X0)$$