

t46_classes2
(TMPnLH8Dr2ztz9kDyDdcEjxEcv2QRfpWeyf)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes2 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_classes2 X0) \Rightarrow ((v1_ordinal1 X0) \wedge (v2_classes1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (v3_ordinal1 X0) \quad (4)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v1_classes2 X0)) \Rightarrow (v3_ordinal1 (k2_ordinal1 X0))$$