

t20_classes2
(TMR1L2Npxnx256Q8g3V7UGzsViByGmSB6AR)

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Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. ((k1_card_1 X0 = k6_numbers) \wedge (k1_card_1 X1 = k6_numbers)) \Rightarrow (X0 = X1) \quad (1)$$

Assume the following.

$$\forall X0. (v2_classes1 X0) \Rightarrow (v4_ordinal1 (k1_card_1 X0)) \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0. k1_card_1 (k1_card_1 X0) = k1_card_1 X0 \quad (4)$$

Theorem 1

$$\forall X0. (v2_classes1 X0) \Rightarrow ((X0 = k1_xboole_0) \vee ((k1_card_1 X0 \neq k6_numbers) \wedge ((k1_card_1 X0 \neq k1_xboole_0) \wedge (v4_ordinal1 (k1_card_1 X0))))))$$