

t18_card.3 (TMQKkDBdhLQzbWFQBeSd- MZwnmieF7N9RQYN)

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Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_card_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k4_xboole_0 X0 (k2_xboole_0 X0 X1) = k1_xboole_0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k4_xboole_0 (k4_xboole_0 X0 X1) X2 = k4_xboole_0 X0 (k2_xboole_0 X1 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 (k4_xboole_0 X1 X0) = k2_xboole_0 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k5_card_3 X2 (k2_xboole_0 X0 X1) = k2_xboole_0 (k5_card_3 X2 X0) (k5_card_3 X2 X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (k4_xboole_0 X0 X1 = k1_xboole_0) \Leftrightarrow (r1_tarSKI X0 X1) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (7)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. r1_tarSKI (k6_subset_1 (k5_card_3 X1 X0) (k5_card_3 X1 X2)) (k5_card_3 X1 (k6_subset_1 X0 X2))$$