

## t73\_card\_2

(TML6DDQyVT26xs5m3SKCwr4dzR4jXXtzVsm)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v4\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k11\_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k10\_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\exists X1.(v7\_ordinal1 X1) \wedge (k11\_ordinal2 X0 (k1\_ordinal1 np\_1) = k10\_ordinal2 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\neg(X0 \neq k6\_numbers) \wedge (\forall X1.(v7\_ordinal1 X1) \Rightarrow (X0 \neq k1\_nat\_1 X1 np\_1))) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (3)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (\forall X1.(v3\_ordinal1 X1) \Rightarrow ((v4\_ordinal1 X0) \Rightarrow (v4\_ordinal1 (k11\_ordinal2 X0 X1)))) \quad (4)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k4\_card\_1 X0 = k1\_nat\_1 X0 np\_1) \quad (5)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow ((\neg(\neg v4\_ordinal1 X0) \wedge (\forall X1.(v3\_ordinal1 X1) \Rightarrow (X0 \neq k1\_ordinal1 X1))) \wedge (\neg(\exists X1.(v3\_ordinal1 X1) \wedge (X0 = k1\_ordinal1 X1)) \wedge (v4\_ordinal1 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(\forall X1.(v3\_ordinal1\ X1)\Rightarrow(k10\_ordinal2\ X0\ (k1\_ordinal1\ X1) = k1\_ordinal1\ (k10\_ordinal2\ X0\ X1))) \quad (7)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(k10\_ordinal2\ X0\ k1\_xboole\_0 = X0) \quad (8)$$

Assume the following.

$$((v2\_xxreal\_0\ np\_2)\wedge(m2\_subset\_1\ np\_2\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_2\ k5\_numbers)\wedge(m1\_subset\_1\ np\_2\ k1\_numbers)) \quad (9)$$

Assume the following.

$$v1\_xboole\_0\ np\_0 \quad (10)$$

Assume the following.

$$k1\_ordinal1\ np\_1 = np\_2 \quad (11)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (12)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (13)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k4\_card\_1\ X0 = k1\_ordinal1\ X0) \quad (14)$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1)\wedge(v3\_ordinal1\ k4\_ordinal1) \quad (15)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow((\neg v1\_xboole\_0\ (k1\_ordinal1\ X0))\wedge(v3\_ordinal1\ (k1\_ordinal1\ X0))) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v3\_ordinal1\ X0)\wedge(v3\_ordinal1\ X1))\Rightarrow(v3\_ordinal1\ (k10\_ordinal2\ X0\ X1)) \quad (17)$$

Assume the following.

$$\forall X0.k1\_ordinal1\ X0 = k2\_xboole\_0\ X0\ (k1\_tarSKI\ X0) \quad (18)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v3\_ordinal1\ X0) \quad (19)$$

Assume the following.

$$\forall X0.(v3\_ordinal1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v3\_ordinal1\ X1)) \quad (20)$$

**Theorem 1**

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow ((v4\_ordinal1\ X0) \Rightarrow (k11\_ordinal2\ X0\ (k1\_ordinal1\ np\_1) = X0))$$