

## t53\_card\_1

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Let  $np\_5 : \iota$  be given. Let  $k3\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $k2\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$np\_4 = k2\_enumset1\ k1\_xboole\_0\ np\_1\ np\_2\ np\_3 \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.k3\_enumset1\ X0\ X1\ X2\ X3\ X4 = k2\_xboole\_0\ (k2\_enumset1\ X0\ X1\ X2\ X3)\ (k1\_tarski\ X4) \quad (2)$$

Assume the following.

$$k1\_ordinal1\ np\_4 = np\_5 \quad (3)$$

Assume the following.

$$\forall X0.k1\_ordinal1\ X0 = k2\_xboole\_0\ X0\ (k1\_tarski\ X0) \quad (4)$$

**Theorem 1**  $np\_5 = k3\_enumset1\ k1\_xboole\_0\ np\_1\ np\_2\ np\_3\ np\_4$ .