

t47_card_1

(TMXqL7Rf6R11NXH7gCCDxpd5CgK93eAQ5p5)

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Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k2_card_1 : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$k3_card_1 \ k1_xboole_0 = k4_ordinal1 \tag{1}$$

Assume the following.

$$\begin{aligned} & (k3_card_1 \ k1_xboole_0 = k1_card_1 \ k4_ordinal1) \wedge ((\forall X0. \\ & (v3_ordinal1 \ X0) \Rightarrow (k3_card_1 \ (k1_ordinal1 \ X0) = k2_card_1 \ (k3_tarski \\ & \ (k1_tarski \ (k3_card_1 \ X0)))))) \wedge (\forall X0. (v3_ordinal1 \ X0) \Rightarrow \\ & ((v4_ordinal1 \ X0) \Rightarrow ((X0 = k1_xboole_0) \vee (\forall X1. ((v1_relat_1 \\ & \ X1) \wedge ((v1_funct_1 \ X1) \wedge (v5_ordinal1 \ X1))) \Rightarrow (((k9_xtuple_0 \ X1 = \\ & \ X0) \wedge (\forall X2. (v3_ordinal1 \ X2) \Rightarrow ((X2 \in X0) \Rightarrow (k1_funct_1 \ X1 \ X2 = \\ & \ k3_card_1 \ X2)))))) \Rightarrow (k3_card_1 \ X0 = k1_card_1 \ (k4_ordinal2 \ X1)))))) \end{aligned} \tag{2}$$

Theorem 1 $k1_card_1 \ k4_ordinal1 = k4_ordinal1$.