t54_compos_1 (TMGDLVtPtEC8TBptktQoYuyMw66ap2i8Uke)

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Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_compos\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k16\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.k16\_funcop\_1\ X0\ X1 = k1\_tarski\ (k4\_tarski\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.k1\_card\_1\ (k1\_tarski\ X0) = np\_\_1 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_compos\_1\ X0) \wedge (m1\_subset\_1\ X1\ (u1\_compos\_1\ X0))) \Rightarrow (k9\_compos\_1\ X0\ X1 = k3\_afinsq\_1\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (k5\_card\_1\ X0 = k1\_card\_1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.(v5\_ordinal1\ (k3\_afinsq\_1\ X0)) \wedge (v1\_finset\_1\ (k3\_afinsq\_1\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.k3\_afinsq\_1\ X0 = k16\_funcop\_1\ k6\_numbers\ X0 \tag{6}$$

Theorem 1

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_compos\_1\ X0)) \Rightarrow (k5\_card\_1\ (k9\_compos\_1\ X0\ X1) = np\_\_1))$$