t53_compos_1 (TM-SzkH8TZuUmqTX3vJmdqhVdV7fXiw45YSd)

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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 $k6\_numbers : \iota$ be given. Let $k2\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_compos\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(l1\_compos\_1\ X1) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_compos\_1\ X1)) \Rightarrow ((X0 \in k2\_afinsq\_1\ (k9\_compos\_1\ X1\ X2)) \Leftrightarrow (X0 = k6\_numbers))) \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Theorem 1

$$\forall X0.(l1\_compos\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_compos\_1\ X0)) \Rightarrow (k6\_numbers \in k2\_afinsq\_1\ (k9\_compos\_1\ X0\ X1)))$$