t13_fomodel1 (TMWbPm3A4WBLBJjcUPCTmJ9BWQ8SrXdCibW)

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Let $v6\_struct\_0 : \iota \Rightarrow o$ be given. Let $v11\_fomodel1 : \iota \Rightarrow o$ be given. Let $l1\_fomodel1 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k15\_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13\_finseq\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v6\_struct\_0\ X1) \wedge ((v11\_fomodel1\ X1) \wedge (l1\_fomodel1\ X1))) \Rightarrow ((m2\_subset\_1\ X0\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k6\_subset\_1\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k1\_tarski\ k1\_xboole\_0))) \Leftrightarrow ((\neg v1\_xboole\_0\ X0) \wedge (m2\_finseq\_2\ X0\ (k15\_fomodel1\ X1)\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_2\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1\ X0\ X1 = k4\_xboole\_0\ X0\ X1 \tag{4}$$

Assume the following.

$$\forall X0.k3\_finseq\_2\ X0 = k13\_finseq\_1\ X0 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_2\ X1\ X0) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ X0\ X1) \Rightarrow (m2\_finseq\_1\ X2\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.m1\_finseq\_2\ (k3\_finseq\_2\ X0)\ X0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k13\_finseq\_1\ X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow(m2\_finseq\_1\ X2\ X0)) \tag{8}$$

Theorem 1

$$\forall X0.\forall X1.((\neg v6\_struct\_0\ X1)\wedge((v11\_fomodel1\ X1)\wedge(l1\_fomodel1\ X1)))\Rightarrow((m2\_subset\_1\ X0\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k6\_subset\_1\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k1\_tarski\ k1\_xboole\_0)))\Leftrightarrow((\neg v1\_xboole\_0\ X0)\wedge(m2\_finseq\_1\ X0\ (k15\_fomodel1\ X1))))$$