t2_fomodel0 (TMNYtksKxf4pkHtEYmmGQ6wmeUE1ARK2oyQ)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(v7\_ordinal1\ X2) \Rightarrow (k3\_xboole\_0\ (k4\_finseq\_2\ X2\ X0)\ (k3\_finseq\_2\ X1) = k3\_xboole\_0\ (k4\_finseq\_2\ X2\ X0)\ (k4\_finseq\_2\ X2\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_xboole\_0\ (k1\_funct\_2\ X0\ X1)\ (k1\_funct\_2\ X0\ X2) = k1\_funct\_2\ X0\ (k3\_xboole\_0\ X1\ X2) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.k4\_finseq\_2\ X0\ X1 = k1\_funct\_2\ (k2\_finseq\_1\ X0)\ X1) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(v7\_ordinal1\ X2) \Rightarrow (k3\_xboole\_0\ (k4\_finseq\_2\ X2\ X0)\ (k3\_finseq\_2\ X1) = k4\_finseq\_2\ X2\ (k3\_xboole\_0\ X0\ X1))$$