t1_stacks_1 (TMaTymyhMhsFhkqEq7cHHsnbJ3yBk9vikTR)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k2\_finseq\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_finseq\_1\ X0))) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))) \Rightarrow ((r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ (k3\_finseq\_1\ (k7\_finseq\_1\ X0\ X1))) \wedge ((r1\_xxreal\_0\ (k3\_finseq\_1\ X1)\ (k3\_finseq\_1\ (k7\_finseq\_1\ X0\ X1))) \wedge ((X0 \neq k1\_xboole\_0) \Rightarrow ((r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X0)) \wedge (\neg r1\_xxreal\_0\ (k3\_finseq\_1\ (k7\_finseq\_1\ X1\ X0))\ (k3\_finseq\_1\ X1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_finseq\_1\ X0))) \Rightarrow ((k7\_finseq\_1\ X0\ k1\_xboole\_0 = X0) \wedge (k7\_finseq\_1\ k1\_xboole\_0\ X0 = X0)) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((\neg r1\_xxreal\_0\ (k1\_nat\_1\ X1\ np\_\_1)\ X0) \Leftrightarrow (r1\_xxreal\_0\ X0\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))) \Rightarrow ((\neg (X0 \in k1\_relset\_1\ k5\_numbers\ X1) \wedge (\forall X2.(v7\_ordinal1\ X2) \Rightarrow (\neg (k3\_finseq\_1\ X1 = k1\_nat\_1\ X2\ np\_\_1) \wedge (k3\_finseq\_1\ (k2\_finseq\_3\ X0\ X1) = X2)))) \wedge ((\neg X0 \in k1\_relset\_1\ k5\_numbers\ X1) \Rightarrow (k2\_finseq\_3\ X0\ X1 = X1)))) \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1))))\Rightarrow((v1\_relat\_1\ (k2\_finseq\_3\ X0\ X1))\wedge((v1\_funct\_1\ (k2\_finseq\_3\ X0\ X1))\wedge(v1\_finseq\_1\ (k2\_finseq\_3\ X0\ X1)))) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_xboole\_0\ X0))\Rightarrow((v1\_relat\_1\ X0)\wedge(v1\_finseq\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v1\_relat\_1\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v1\_funct\_1\ X0) \tag{10}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(k2\_finseq\_3\ X0\ k1\_xboole\_0 = k1\_xboole\_0)$$