t5_finseq_3 (TMThDw3U6BrJYAXKrmJckymmhcsp6GvJrGZ)

October 27, 2020

Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_7 : \iota$ be given. Let $k5\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $np\_\_6 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (k2\_xboole\_0\ (k2\_finseq\_1\ X0)\ (k1\_tarski\ (k1\_nat\_1\ X0\ np\_\_1)) = k2\_finseq\_1\ (k1\_nat\_1\ X0\ np\_\_1)) \tag{1}$$

Assume the following.

$$k2\_finseq\_1\ np\_\_6 = k4\_enumset1\ np\_\_1\ np\_\_2\ np\_\_3\ np\_\_4\ np\_\_5\ np\_\_6 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ \forall X6.k5\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5\ X6 = k2\_xboole\_0\ (k4\_enumset1\ X0\ X1\ X2\ X3\ X4\ X5)\ (k1\_tarski\ X6) \tag{3}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_6) \wedge (m2\_subset\_1\ np\_\_6\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_6\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_6\ k1\_numbers)) \tag{4}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{5}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_6\ np\_\_1 = np\_\_7 \tag{6}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(m1\_subset\_1\ X1\ k5\_numbers))\Rightarrow (k1\_nat\_1\ X0\ X1 = k2\_xcmplx\_0\ X0\ X1) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{9}$$

Theorem 1 $k2\_finseq\_1\ np\_\_7 = k5\_enumset1\ np\_\_1\ np\_\_2\ np\_\_3\ np\_\_4\ np\_\_5\ np\_\_6\ np\_\_7$.