t4_int_2 (TMY9zK1KPPegmv68y1kgnFgNp1VXykfrKTz)

October 27, 2020

Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k2\_int\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $np\_\_0 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0\ X1) \Rightarrow (\neg (k3\_xcmplx\_0\ X0\ X1 = k6\_numbers) \wedge ((X0 \neq k6\_numbers) \wedge (X1 \neq k6\_numbers)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow ((r1\_int\_1\ k6\_numbers\ X0) \Leftrightarrow (X0 = k6\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (\forall X2.(v1\_int\_1\ X2) \Rightarrow ((r1\_int\_1\ X0\ X1) \Rightarrow (r1\_int\_1\ X0\ (k3\_xcmplx\_0\ X1\ X2))))) \tag{4}$$

Assume the following.

$$m1\_subset\_1\ k1\_xboole\_0\ k4\_ordinal1 \tag{5}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0) \wedge (v1\_int\_1\ X1)) \Rightarrow (r1\_int\_1\ X0\ X0) \tag{7}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(v1\_int\_1\ (k3\_xcmplx\_0\ X0\ X1)) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(v7\_ordinal1\ (k2\_int\_2\ X0\ X1)) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(\forall X1.(v1\_int\_1\ X1)\Rightarrow(\forall X2.(v7\_ordinal1\ X2)\Rightarrow((X2 = k2\_int\_2\ X0\ X1)\Leftrightarrow((r1\_int\_1\ X0\ X2)\wedge((r1\_int\_1\ X1\ X2)\wedge(\forall X3.(v1\_int\_1\ X3)\Rightarrow(((r1\_int\_1\ X0\ X3)\wedge(r1\_int\_1\ X1\ X3))\Rightarrow(r1\_int\_1\ X2\ X3)))))))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(k3\_xcmplx\_0\ X0\ X1 = k3\_xcmplx\_0\ X1\ X0) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_int\_1\ X0)\wedge(v1\_int\_1\ X1))\Rightarrow(k2\_int\_2\ X0\ X1 = k2\_int\_2\ X1\ X0) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{15}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(v1\_xreal\_0\ X0) \tag{16}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_int\_1\ X0) \tag{17}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0)\Rightarrow(\forall X1.(v1\_int\_1\ X1)\Rightarrow(((X0 = k6\_numbers)\vee(X1 = k6\_numbers))\Leftrightarrow(k2\_int\_2\ X0\ X1 = k6\_numbers)))$$