t49_xxreal_2 (TMUqq6Khhka2gd7rWsCxSeuHc6vrdReq9yE)

October 27, 2020

Let $v2\_membered : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v4\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k2\_xxreal\_0 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_xxreal\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.\neg(X0 \neq k1\_tarski\ X1) \wedge (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (X2 = X1))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\neg (X0 \in k1\_numbers) \wedge ((r1\_xxreal\_0\ X1\ X0) \wedge ((\neg X1 \in k1\_numbers) \wedge (X1 \neq k2\_xxreal\_0))))) \tag{4}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow ((m1\_xxreal\_2\ X1\ X0) \Leftrightarrow (\forall X2.(v1\_xxreal\_0\ X2) \Rightarrow ((X2 \in X0) \Rightarrow (r1\_xxreal\_0\ X2\ X1))))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Leftrightarrow (X0 \in k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow((v4\_xxreal\_2\ X0)\Leftrightarrow(\exists X1.(v1\_xreal\_0\ X1)\wedge(m1\_xxreal\_2\ X1\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v2\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v1\_xxreal\_0\ X1)) \tag{9}$$

Theorem 1

$$\forall X0.((v2\_membered\ X0)\wedge((\neg v1\_xboole\_0\ X0)\wedge(v4\_xxreal\_2\ X0)))\Rightarrow(\neg(X0\neq k1\_tarski\ k2\_xxreal\_0)\wedge(\forall X1.(m1\_subset\_1\ X1\ k1\_numbers)\Rightarrow(\neg X1\in X0)))$$