t15_pcs_0 (TMYiR82iZBtyzVsS7m53m7aucKo9t7kPJi5)

October 27, 2020

Let $l2\_pcs\_0 : \iota \Rightarrow o$ be given. Let $k18\_pcs\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g2\_pcs\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_pcs\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $u1\_pcs\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $k6\_afinsq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v16\_pcs\_0 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v12\_pcs\_0 : \iota \Rightarrow o$ be given. Let $k17\_pcs\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l2\_pcs\_0\ X0) \Rightarrow (\forall X1.(l2\_pcs\_0\ X1) \Rightarrow ((u1\_struct\_0\ (k18\_pcs\_0\ X0\ X1) = k2\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)) \wedge ((u1\_orders\_2\ (k18\_pcs\_0\ X0\ X1) = k2\_pcs\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_orders\_2\ X0)\ (u1\_orders\_2\ X1)) \wedge (u1\_pcs\_0\ (k18\_pcs\_0\ X0\ X1) = k2\_pcs\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_pcs\_0\ X0)\ (u1\_pcs\_0\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ (k6\_afinsq\_1\ X0\ X1)) \wedge (v1\_funct\_1\ (k6\_afinsq\_1\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((l2\_pcs\_0\ X0) \wedge (l2\_pcs\_0\ X1)) \Rightarrow (v16\_pcs\_0\ (k6\_afinsq\_1\ X0\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.v1\_partfun1\ (k6\_afinsq\_1\ X0\ X1)\ (k2\_tarski\ k6\_numbers\ np\_\_1) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.v4\_relat\_1\ (k6\_afinsq\_1\ X0\ X1)\ (k2\_tarski\ k6\_numbers\ np\_\_1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((l2\_pcs\_0\ X0)\wedge(l2\_pcs\_0\ X1))\Rightarrow(l2\_pcs\_0\ (k18\_pcs\_0\ X0\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ X0)\wedge((v1\_funct\_1\ X1)\wedge((v1\_partfun1\ X1\ X0)\wedge(v16\_pcs\_0\ X1)))))\Rightarrow((v12\_pcs\_0\ (k17\_pcs\_0\ X0\ X1))\wedge(l2\_pcs\_0\ (k17\_pcs\_0\ X0\ X1))) \tag{7}$$

Assume the following.

$$\forall X0.(l2\_pcs\_0\ X0)\Rightarrow(\forall X1.(l2\_pcs\_0\ X1)\Rightarrow(k18\_pcs\_0\ X0\ X1 = k17\_pcs\_0\ (k2\_tarski\ k6\_numbers\ np\_\_1)\ (k6\_afinsq\_1\ X0\ X1))) \tag{8}$$

Assume the following.

$$\forall X0.(l2\_pcs\_0\ X0)\Rightarrow((v12\_pcs\_0\ X0)\Rightarrow(X0 = g2\_pcs\_0\ (u1\_struct\_0\ X0)\ (u1\_orders\_2\ X0)\ (u1\_pcs\_0\ X0))) \tag{9}$$

Theorem 1

$$\forall X0.(l2\_pcs\_0\ X0)\Rightarrow(\forall X1.(l2\_pcs\_0\ X1)\Rightarrow(k18\_pcs\_0\ X0\ X1 = g2\_pcs\_0\ (k2\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\ (k2\_pcs\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_orders\_2\ X0)\ (u1\_orders\_2\ X1))\ (k2\_pcs\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_pcs\_0\ X0)\ (u1\_pcs\_0\ X1))))$$