t27_compos_1 (TMP5PQd9aJXzpgqryQrFRF2KqoMDqcidKm3)

October 27, 2020

Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_afinsq\_1 : \iota \Rightarrow o$ be given. Let $v3\_compos\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_compos\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_compos\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_compos\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((l1\_compos\_1\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge ((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ k5\_numbers)\wedge((v5\_relat\_1\ X1 (u1\_compos\_1\ X0))\wedge((v1\_funct\_1\ X1)\wedge((v1\_finset\_1\ X1)\wedge((v1\_afinsq\_1 X1)\wedge((v3\_compos\_1\ X1\ X0)\wedge(v4\_compos\_1\ X1\ X0))))))))))\Rightarrow(k8\_compos\_1 X0\ X1\ (k4\_compos\_1\ X0) = X1) \tag{1}$$

Theorem 1

$$\forall X0.(l1\_compos\_1\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge ((v1\_relat\_1\ X1)\wedge((v4\_relat\_1\ X1\ k5\_numbers)\wedge((v5\_relat\_1\ X1 (u1\_compos\_1\ X0))\wedge((v1\_funct\_1\ X1)\wedge((v1\_finset\_1\ X1)\wedge((v1\_afinsq\_1 X1)\wedge((v3\_compos\_1\ X1\ X0)\wedge(v4\_compos\_1\ X1\ X0))))))))))\Rightarrow(k8\_compos\_1 X0\ X1\ (k4\_compos\_1\ X0) = X1))$$