l67_o_ring_1 (TMRDShjYthrscvP-pLN7oTyBKALL9R5ZUay5)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v13\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v9\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l6\_algstr\_0\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (((v13\_o\_ring\_1\ X1\ X0) \wedge (v9\_o\_ring\_1\ X2\ X0)) \Rightarrow (v13\_o\_ring\_1\ (k1\_algstr\_0\ X0\ X1\ X2)\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l6\_algstr\_0\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow ((v5\_o\_ring\_1\ X1\ X0) \Rightarrow (v9\_o\_ring\_1\ X1\ X0))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l6\_algstr\_0\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (((v13\_o\_ring\_1\ X1\ X0) \wedge (v5\_o\_ring\_1\ X2\ X0)) \Rightarrow (v13\_o\_ring\_1\ (k1\_algstr\_0\ X0\ X1\ X2)\ X0))))$$