t66_group_3 (TM-RUG362bz8gnZXd1nmxJLXQWMVrVmJeua4)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_group\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $l3\_algstr\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v8\_struct\_0 : \iota \Rightarrow o$ be given. Let $m1\_group\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_group\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_group\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X0) \Rightarrow (k7\_struct\_0\ X2 = k7\_struct\_0\ (k6\_group\_3\ X0\ X2\ X1)))) \tag{1}$$

Assume the following.

$$\forall X0.((v8\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \Rightarrow (k7\_group\_1\ X0 = k7\_struct\_0\ X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \wedge ((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \wedge ((v8\_struct\_0\ X2) \wedge (m1\_group\_2\ X2\ X0)))) \Rightarrow ((v8\_struct\_0\ (k6\_group\_3\ X0\ X2\ X1)) \wedge (v15\_algstr\_0\ (k6\_group\_3\ X0\ X2\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0))) \Rightarrow (\forall X1.(m1\_group\_2\ X1\ X0) \Rightarrow ((\neg v2\_struct\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge (l3\_algstr\_0\ X1)))) \tag{4}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0) \Rightarrow (l1\_struct\_0\ X0) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v2\_group\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge(l3\_algstr\_0\ X0))))\wedge((m1\_group\_2\ X1\ X0)\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))))\Rightarrow((v15\_algstr\_0\ (k6\_group\_3\ X0\ X1\ X2))\wedge(m1\_group\_2\ (k6\_group\_3\ X0\ X1\ X2)\ X0)) \tag{6}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_group\_1\ X0)\wedge((v3\_group\_1\ X0)\wedge(l3\_algstr\_0\ X0))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.((v8\_struct\_0\ X2)\wedge(m1\_group\_2\ X2\ X0))\Rightarrow(k7\_group\_1\ X2 = k7\_group\_1\ (k6\_group\_3\ X0\ X2\ X1))))$$