t11_groupp_1 (TMZjsHN7MJe8DyW4wgFiaoT6Pgvmu71CyME)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v8\_struct\_0 : \iota \Rightarrow o$ 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 $v1\_group\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_group\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_group\_5 : \iota \Rightarrow \iota$ be given. Let $v1\_gr\_cy\_1 : \iota \Rightarrow o$ be given. Let $k5\_group\_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_struct\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_group\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \Rightarrow (\forall X1.(m1\_group\_2\ X1\ X0) \Rightarrow (\forall X2.(m1\_group\_2\ X2\ X0) \Rightarrow ((\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow ((r1\_struct\_0\ X1\ X3) \Rightarrow (r1\_struct\_0\ X2\ X3))) \Rightarrow (m1\_group\_2\ X1\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v8\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0))))) \Rightarrow (\forall X1.((v1\_group\_3\ X1\ X0) \wedge (m1\_group\_2\ X1\ X0)) \Rightarrow (((m1\_group\_6\ X1\ X0\ (k10\_group\_5\ X0)) \wedge (v1\_gr\_cy\_1\ (k5\_group\_6\ X0\ X1))) \Rightarrow (v5\_group\_1\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0)))) \wedge (m1\_group\_2\ X1\ X0)) \Rightarrow (\forall X2.(m1\_group\_6\ X2\ X0\ X1) \Leftrightarrow (m1\_group\_2\ X2\ X1)) \tag{3}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v8\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (l3\_algstr\_0\ X0))))) \Rightarrow (\forall X1.((v1\_group\_3\ X1\ X0) \wedge (m1\_group\_2\ X1\ X0)) \Rightarrow (((X1 = k10\_group\_5\ X0) \wedge (v1\_gr\_cy\_1\ (k5\_group\_6\ X0\ X1))) \Rightarrow (v5\_group\_1\ X0)))$$