# t36_groupp_1 (TMX6tghgsyVkd2bAeDwM5vr5aryVxEyoQJw)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v8\_struct\_0 : \iota \Rightarrow o$ be given. Let $v15\_algstr\_0 : \iota \Rightarrow o$ 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 $v2\_group\_10 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_groupp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v3\_groupp\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_gr\_cy\_1 : \iota \Rightarrow o$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge (v1\_int\_2\ X0)) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v8\_struct\_0\ X1) \wedge ((v15\_algstr\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge ((v3\_group\_1\ X1) \wedge (l3\_algstr\_0\ X1)))))) \Rightarrow (((v2\_group\_10\ X1\ X0) \wedge (k2\_groupp\_1\ X0\ X1 = np\_\_1)) \Rightarrow (v1\_gr\_cy\_1\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v7\_ordinal1\ X0) \wedge (v1\_int\_2\ X0)) \Rightarrow (\forall X1.(l3\_algstr\_0\ X1) \Rightarrow (((\neg v2\_struct\_0\ X1) \wedge ((v8\_struct\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge ((v3\_group\_1\ X1) \wedge ((v5\_group\_1\ X1) \wedge (v2\_group\_10\ X1\ X0)))))) \Rightarrow ((\neg v2\_struct\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge ((v3\_group\_1\ X1) \wedge (v3\_groupp\_1\ X1\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(l3\_algstr\_0\ X0) \Rightarrow (((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (v1\_gr\_cy\_1\ X0)))) \Rightarrow ((\neg v2\_struct\_0\ X0) \wedge ((v2\_group\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge (v5\_group\_1\ X0))))) \tag{3}$$

**Theorem 1**

$$\forall X0.((v7\_ordinal1\ X0) \wedge (v1\_int\_2\ X0)) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v8\_struct\_0\ X1) \wedge ((v15\_algstr\_0\ X1) \wedge ((v2\_group\_1\ X1) \wedge ((v3\_group\_1\ X1) \wedge (l3\_algstr\_0\ X1)))))) \Rightarrow (((v2\_group\_10\ X1\ X0) \wedge (k2\_groupp\_1\ X0\ X1 = np\_\_1)) \Rightarrow (v3\_groupp\_1\ X1\ X0)))$$