

# t35\_group\_1

## (TMPaMe7C53Awdb2cacURofpgfb3embiizEa)

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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  $k2\_group\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v3\_group\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v2\_group\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_group\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_group\_1 X0) \wedge ((v3\_group\_1 \\ X0) \wedge (l3\_algstr\_0 X0)))) \Rightarrow (\forall X1.((v7\_ordinal1 X1) \wedge (v1\_int\_2 \\ X1)) \Rightarrow (v2\_group\_1 (k6\_group\_2 X0) X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7\_ordinal1 X0) \wedge (v1\_int\_2 X0)) \Rightarrow (\forall X1.((\neg \\ v2\_struct\_0 X1) \wedge ((v8\_struct\_0 X1) \wedge ((v15\_algstr\_0 X1) \wedge ((v2\_group\_1 \\ X1) \wedge ((v3\_group\_1 X1) \wedge (l3\_algstr\_0 X1)))))) \Rightarrow (((v2\_group\_10 \\ X1 X0) \wedge (k2\_group\_1 X0 X1 = k6\_numbers)) \Rightarrow (X1 = k6\_group\_2 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(l3\_algstr\_0 X1) \Rightarrow (( \\ (\neg v2\_struct\_0 X1) \wedge ((v2\_group\_1 X1) \wedge ((v3\_group\_1 X1) \wedge ((v2\_group\_10 \\ X1 X0) \wedge (v2\_group\_1 X1 X0)))))) \Rightarrow ((\neg v2\_struct\_0 X1) \wedge ((v2\_group\_1 \\ X1) \wedge ((v3\_group\_1 X1) \wedge (v3\_group\_1 X1 X0)))))) \end{aligned} \quad (3)$$

### Theorem 1

$$\begin{aligned} \forall X0.((v7\_ordinal1 X0) \wedge (v1\_int\_2 X0)) \Rightarrow (\forall X1.((\neg \\ v2\_struct\_0 X1) \wedge ((v8\_struct\_0 X1) \wedge ((v15\_algstr\_0 X1) \wedge ((v2\_group\_1 \\ X1) \wedge ((v3\_group\_1 X1) \wedge (l3\_algstr\_0 X1)))))) \Rightarrow (((v2\_group\_10 \\ X1 X0) \wedge (k2\_group\_1 X0 X1 = k6\_numbers)) \Rightarrow (v3\_group\_1 X1 X0))) \end{aligned}$$