

## t139\_group\_3

(TMUThveYH3xj6YRg1TTUqNYiMdzV2gbNdD8)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  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  $k11\_group\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_group\_2 : \iota \Rightarrow \iota$  be given. Let  $m1\_group\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_group\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_group\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v15\_algstr\_0 X0) \wedge ((v2\_group\_1 \\ X0) \wedge ((v3\_group\_1 X0) \wedge (l3\_algstr\_0 X0)))))) \Rightarrow (\forall X1. ((v15\_algstr\_0 \\ X1) \wedge (m1\_group\_2 X1 X0)) \Rightarrow (((v1\_group\_3 X1 X0) \wedge (m1\_group\_2 X1 X0)) \Leftrightarrow \\ (k11\_group\_3 X0 X1 = X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_group\_1 X0) \wedge ((v3\_group\_1 \\ X0) \wedge (l3\_algstr\_0 X0)))) \Rightarrow ((v1\_group\_3 (k6\_group\_2 X0) X0) \wedge (v1\_group\_3 \\ (k7\_group\_2 X0) X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v2\_group\_1 X0) \wedge ((v3\_group\_1 \\ X0) \wedge (l3\_algstr\_0 X0)))) \Rightarrow ((v15\_algstr\_0 (k7\_group\_2 X0)) \wedge (m1\_group\_2 \\ (k7\_group\_2 X0) X0)) \end{aligned} \tag{3}$$

### Theorem 1

$$\begin{aligned} \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v15\_algstr\_0 X0) \wedge ((v2\_group\_1 \\ X0) \wedge ((v3\_group\_1 X0) \wedge (l3\_algstr\_0 X0)))))) \Rightarrow (k11\_group\_3 X0 ( \\ k7\_group\_2 X0) = X0) \end{aligned}$$