

l65\_o\_ring\_1 (TM-  
FYw98t2Z9Q3FqwWkbVbtCywwXR9qbxSB9)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l6\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $v5\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v12\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k12\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v9\_o\_ring\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l6\_algstr\_0 X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow ((v9\_o\_ring\_1 X1 X0) \Rightarrow (v12\_o\_ring\_1 \\ & (k12\_finseq\_1 (u1\_struct\_0 X0) X1) X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l6\_algstr\_0 X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow ((v5\_o\_ring\_1 X1 X0) \Rightarrow (v9\_o\_ring\_1 \\ & X1 X0))) \end{aligned} \tag{2}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l6\_algstr\_0 X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow ((v5\_o\_ring\_1 X1 X0) \Rightarrow (v12\_o\_ring\_1 \\ & (k12\_finseq\_1 (u1\_struct\_0 X0) X1) X0))) \end{aligned}$$