

t1\_jordan1b  
(TMGoiKRvfooc9QVaBJa8y6YPG5tAhbAinJk)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k3\_finseq\_5 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. ((v1\_xboole\_0 X0) \wedge ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0)))) \Rightarrow ((v1\_xboole\_0 (k3\_finseq\_5 X0)) \wedge ((v1\_relat\_1 (k3\_finseq\_5 X0)) \wedge ((v1\_funct\_1 (k3\_finseq\_5 X0)) \wedge (v1\_finseq\_1 (k3\_finseq\_5 X0))))) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0)))) \Rightarrow ((\neg v1\_xboole\_0 (k3\_finseq\_5 X0)) \wedge ((v1\_relat\_1 (k3\_finseq\_5 X0)) \wedge ((v1\_funct\_1 (k3\_finseq\_5 X0)) \wedge (v1\_finseq\_1 (k3\_finseq\_5 X0))))) \quad (2)$$

**Theorem 1**

$$\forall X0. ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow ((v1\_xboole\_0 X0) \Leftrightarrow (v1\_xboole\_0 (k3\_finseq\_5 X0)))$$