

t36\_lattice8  
(TMUMbJGS5wB78ZenUfVbJb9bMVjjJtJsVRe)

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Let  $v3\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v4\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v5\_orders\_2 : \iota \Rightarrow o$  be given. Let  $v1\_yellow\_0 : \iota \Rightarrow o$  be given. Let  $v1\_lattice3 : \iota \Rightarrow o$  be given. Let  $v2\_lattice3 : \iota \Rightarrow o$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $r1\_lattice8 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $v1\_yellow11 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge ((v1\_lattice3 X0) \wedge ((v2\_lattice3 X0) \wedge (l1\_orders\_2 X0))))))) \Rightarrow ((r1\_lattice8 X0 np\_2) \Rightarrow (v1\_yellow11 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge ((v1\_lattice3 X0) \wedge ((v2\_lattice3 X0) \wedge ((v1\_yellow11 X0) \wedge (l1\_orders\_2 X0)))))))) \Rightarrow (r1\_lattice8 X0 np\_2) \quad (2)$$

**Theorem 1**

$$\forall X0.((v3\_orders\_2 X0) \wedge ((v4\_orders\_2 X0) \wedge ((v5\_orders\_2 X0) \wedge ((v1\_yellow\_0 X0) \wedge ((v1\_lattice3 X0) \wedge ((v2\_lattice3 X0) \wedge (l1\_orders\_2 X0))))))) \Rightarrow ((r1\_lattice8 X0 np\_2) \Leftrightarrow (v1\_yellow11 X0))$$