

l15\_lattice5  
(TMQef9L9N9vY6grwaj96Cov1Dov6jca5CNf)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k5\_numbers) \Rightarrow (\neg(r1\_xxreal\_0 X0 X1) \wedge ((X0 \neq X1) \wedge (\neg r1\_xxreal\_0 \\ (k2\_nat\_1 X0 np\_1) X1)))) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k5\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow (\neg(r1\_xxreal\_0 \\ np\_1 X0) \wedge (\neg r1\_xxreal\_0 (k2\_nat\_1 X1 X2) X0) \wedge ((\neg(r1\_xxreal\_0 \\ np\_1 X0) \wedge (\neg r1\_xxreal\_0 X1 X0)) \wedge ((\neg(X1 = X0) \wedge (\neg r1\_xxreal\_0 (k2\_nat\_1 \\ X1 X2) X0)) \wedge (\neg(r1\_xxreal\_0 (k2\_nat\_1 X1 np\_1) X0) \wedge (\neg r1\_xxreal\_0 \\ (k2\_nat\_1 X1 X2) X0)))))))) \end{aligned}$$