

t22\_rinfsup1  
(TMbTKTJfk9wF8gNwU3Phvc3kYtGvLo2j1a6)

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Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v7\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v1\_seq\_2 : \iota \Rightarrow o$  be given. Let  $v1\_comseq\_2 : \iota \Rightarrow o$  be given. Let  $v2\_comseq\_2 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ k1\_numbers))) \Rightarrow (((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers \\ k1\_numbers) \wedge (v2\_comseq\_2 X0))) \Rightarrow ((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 \\ X0 k5\_numbers k1\_numbers) \wedge (v1\_comseq\_2 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ k1\_numbers))) \Rightarrow (((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers \\ k1\_numbers) \wedge (v7\_valued\_0 X0) \wedge (v1\_seq\_2 X0))) \Rightarrow ((v1\_funct\_1 \\ X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge (v2\_comseq\_2 X0)))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_funct\_1 X0) \wedge ((v1\_funct\_2 X0 k5\_numbers k1\_numbers) \wedge \\ (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers)))))) \Rightarrow \\ (((v7\_valued\_0 X0) \wedge (v1\_seq\_2 X0)) \Rightarrow (v1\_comseq\_2 X0)) \end{aligned}$$