

t82\_cfunct\_1  
(TMbgqxjpQtspiTFA9SVrmsUSF4cJ8kCvMLr)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  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  $k2\_numbers : \iota$  be given. Let  $v3\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_comseq\_2 : \iota \Rightarrow o$  be given. Let  $k25\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k31\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k55\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k2\_numbers)))) \Rightarrow \\ & ((v3\_funct\_1 (k2\_partfun1 X1 k2\_numbers X2 X0)) \Rightarrow (v1\_comseq\_2 \\ & (k2\_partfun1 X1 k2\_numbers X2 X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k2\_numbers)))) \Rightarrow \\ & ((v1\_comseq\_2 (k2\_partfun1 X1 k2\_numbers X2 X0)) \Rightarrow ((v1\_comseq\_2 \\ & (k2\_partfun1 X1 k1\_numbers (k55\_valued\_1 X1 k2\_numbers X2) X0)) \wedge \\ & (v1\_comseq\_2 (k2\_partfun1 X1 k2\_numbers (k31\_valued\_1 X1 k2\_numbers \\ & X2) X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k2\_numbers)))) \Rightarrow \\ & (\forall X3. (m1\_subset\_1 X3 k2\_numbers) \Rightarrow ((v1\_comseq\_2 (k2\_partfun1 \\ & X1 k2\_numbers X2 X0)) \Rightarrow (v1\_comseq\_2 (k2\_partfun1 X1 k2\_numbers \\ & (k25\_valued\_1 X1 k2\_numbers X2 X3) X0)))) \end{aligned} \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k2\_numbers)))) \Rightarrow \\ & ((v3\_funct\_1 (k2\_partfun1 X1 k2\_numbers X2 X0)) \Rightarrow ((\forall X3. \\ & (m1\_subset\_1 X3 k2\_numbers) \Rightarrow (v1\_comseq\_2 (k2\_partfun1 X1 k2\_numbers \\ & (k25\_valued\_1 X1 k2\_numbers X2 X3) X0))) \wedge ((v1\_comseq\_2 (k2\_partfun1 \\ & X1 k2\_numbers (k31\_valued\_1 X1 k2\_numbers X2) X0)) \wedge (v1\_comseq\_2 \\ & (k2\_partfun1 X1 k1\_numbers (k55\_valued\_1 X1 k2\_numbers X2) X0)))))) \end{aligned}$$