

t33\_seqfunc  
(TMJ8nBo2FDGtuLt1yPoLkibnTP488x41SrK)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. 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  $k4\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_seqfunc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_seqfunc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_seqfunc : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k26\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 k1\_numbers) \Rightarrow \\
& (\forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 k5\_numbers (k4\_partfun1 \\
& X0 k1\_numbers)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\
& (k4\_partfun1 X0 k1\_numbers)))))) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\
& X0) \Rightarrow ((r1\_seqfunc X0 k1\_numbers X2 (k1\_tarski X3)) \Rightarrow (r2\_relset\_1 \\
& k5\_numbers k1\_numbers (k10\_seqfunc X0 (k2\_seqfunc X0 X2 X1) X3) \\
& (k26\_valued\_1 k5\_numbers k1\_numbers (k10\_seqfunc X0 X2 X3) X1)))))) \Rightarrow \\
& (1)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge ( \\
& (v1\_funct\_2 X1 k5\_numbers (k4\_partfun1 X0 k1\_numbers)) \wedge (m1\_subset\_1 \\
& X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k4\_partfun1 X0 k1\_numbers)))))) \Rightarrow \\
& (\forall X2. (r1\_seqfunc X0 k1\_numbers X1 X2) \Rightarrow (\forall X3. (m1\_subset\_1 \\
& X3 X0) \Rightarrow ((X3 \in X2) \Rightarrow (r1\_seqfunc X0 k1\_numbers X1 (k1\_tarski X3)))))) \Rightarrow \\
& (2)
\end{aligned}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k1\_numbers) \Rightarrow \\ & (\forall X2.((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 k5\_numbers (k4\_partfun1 \\ & X0 k1\_numbers)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ & (k4\_partfun1 X0 k1\_numbers)))))) \Rightarrow (\forall X3.(r1\_seqfunc X0 \\ & k1\_numbers X2 X3) \Rightarrow (\forall X4.(m1\_subset\_1 X4 X0) \Rightarrow ((X4 \in X3) \Rightarrow ( \\ & r2\_relset\_1 k5\_numbers k1\_numbers (k10\_seqfunc X0 (k2\_seqfunc \\ & X0 X2 X1) X4) (k26\_valued\_1 k5\_numbers k1\_numbers (k10\_seqfunc \\ & X0 X2 X4) X1)))))) \end{aligned}$$