

t37\_mesfun7c

(TMN8YVheokR4ZFKvFi4py6oinqpRP7hRpNt)

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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  $r2\_reset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k55\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k31\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_cfunct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k2\_numbers)))) \Rightarrow \\ & ((r2\_reset\_1 X1 k2\_numbers (k2\_partfun1 X1 k2\_numbers (k31\_valued\_1 \\ & X1 k2\_numbers X2) X0) (k31\_valued\_1 X1 k2\_numbers (k2\_partfun1 \\ & X1 k2\_numbers X2) X0))) \wedge ((r2\_reset\_1 X1 k2\_numbers (k2\_partfun1 \\ & X1 k2\_numbers (k2\_cfunct\_1 X1 X2) X0) (k2\_cfunct\_1 X1 (k2\_partfun1 \\ & X1 k2\_numbers X2) X0))) \wedge (r2\_reset\_1 X1 k1\_numbers (k2\_partfun1 \\ & X1 k1\_numbers (k55\_valued\_1 X1 k2\_numbers X2) X0) (k55\_valued\_1 \\ & X1 k2\_numbers (k2\_partfun1 X1 k2\_numbers X2) X0)))))) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge ( \\ & m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 k2\_numbers)))) \Rightarrow ( \\ & \forall X2. r2\_reset\_1 X0 k1\_numbers (k2\_partfun1 X0 k1\_numbers \\ & (k55\_valued\_1 X0 k2\_numbers X1) X2) (k55\_valued\_1 X0 k2\_numbers \\ & (k2\_partfun1 X0 k2\_numbers X1 X2)))) \end{aligned}$$