

## t45\_mesfunc6

(TMVtsacEdsPT4vEowrLafWjhQa5xe4uEmmX)

October 27, 2020

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  $k1\_numbers : \iota$  be given. Let  $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k56\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k18\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k19\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k47\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k26\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge ( \\ & \quad m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 k1\_numbers)))) \Rightarrow ( \\ & \quad (r2\_relset\_1 X0 k1\_numbers X1 (k47\_valued\_1 X0 k1\_numbers k1\_numbers \\ & \quad (k18\_rfunct\_3 X0 X1) (k19\_rfunct\_3 X0 X1))) \wedge ((r2\_relset\_1 X0 k1\_numbers \\ & \quad (k56\_valued\_1 X0 k1\_numbers X1) (k3\_valued\_1 X0 k1\_numbers k1\_numbers \\ & \quad (k18\_rfunct\_3 X0 X1) (k19\_rfunct\_3 X0 X1))) \wedge (r2\_relset\_1 X0 k1\_numbers \\ & \quad (k26\_valued\_1 X0 k1\_numbers (k18\_rfunct\_3 X0 X1) np\_2) (k3\_valued\_1 \\ & \quad X0 k1\_numbers k1\_numbers X1 (k56\_valued\_1 X0 k1\_numbers X1)))))) \\ & \hspace{15em} (1) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge ( \\ & \quad m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 k1\_numbers)))) \Rightarrow ( \\ & \quad r2\_relset\_1 X0 k1\_numbers (k56\_valued\_1 X0 k1\_numbers X1) (k3\_valued\_1 \\ & \quad X0 k1\_numbers k1\_numbers (k18\_rfunct\_3 X0 X1) (k19\_rfunct\_3 X0 \\ & \quad X1)))) \end{aligned}$$