

## t56\_funct\_2

(TMZaMLT11hU17HkJvv8Tfa5VB2KL2PKXsSy)

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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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 \\ & X2 X0 X1) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))))) \Rightarrow \\ & (((X1 = k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0)) \Rightarrow ((v2\_funct\_1 X2) \Leftrightarrow (\forall X3. \\ & \forall X4. ((X3 \in X0) \wedge ((X4 \in X0) \wedge (k1\_funct\_1 X2 X3 = k1\_funct\_1 X2 \\ & X4)))) \Rightarrow (X3 = X4)))) \end{aligned} \tag{1}$$

### Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 X0 X0) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0)))))) \Rightarrow ((v2\_funct\_1 \\ & X1) \Leftrightarrow (\forall X2. \forall X3. ((X2 \in X0) \wedge ((X3 \in X0) \wedge (k1\_funct\_1 X1 \\ & X2 = k1\_funct\_1 X1 X3)))) \Rightarrow (X2 = X3)) \end{aligned}$$