

l130\_modelc\_2  
(TMc7rjDW8ywJtttdKtiX2rgSbN2jRwKaRTJn)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  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  $k30\_modelc\_1 : \iota \Rightarrow \iota$  be given. Let  $k25\_modelc\_2 : \iota \Rightarrow \iota$  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  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k30\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow \iota. \forall X1. \forall X2. ((v1\_funct\_1 X2) \wedge \\ & (v1\_funct\_2 X2 X1 X1) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & X1 X1)))) \Rightarrow (\forall X3. ((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 X3 X1 X1) \wedge \\ & (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X1)))))) \Rightarrow (((\forall X4. \\ & (X4 \in X1) \Rightarrow (k1\_funct\_1 X2 X4 = X0 X4)) \wedge (\forall X4. (X4 \in X1) \Rightarrow (k1\_funct\_1 \\ & X3 X4 = X0 X4))) \Rightarrow (r2\_funct\_2 X1 X1 X2 X3)) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge \\ & (v1\_funct\_2 X1 (k30\_modelc\_1 (k25\_modelc\_2 X0)) (k30\_modelc\_1 \\ & (k25\_modelc\_2 X0))) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k30\_modelc\_1 (k25\_modelc\_2 X0)) (k30\_modelc\_1 (k25\_modelc\_2 \\ & X0)))))) \Rightarrow (\forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 (k30\_modelc\_1 \\ & (k25\_modelc\_2 X0)) (k30\_modelc\_1 (k25\_modelc\_2 X0))) \wedge (m1\_subset\_1 \\ & X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k30\_modelc\_1 (k25\_modelc\_2 X0)) \\ & (k30\_modelc\_1 (k25\_modelc\_2 X0)))))) \Rightarrow (((\forall X3. (X3 \in k30\_modelc\_1 \\ & (k25\_modelc\_2 X0)) \Rightarrow (k1\_funct\_1 X1 X3 = k30\_modelc\_2 X0 X3)) \wedge (\forall X3. \\ & (X3 \in k30\_modelc\_1 (k25\_modelc\_2 X0)) \Rightarrow (k1\_funct\_1 X2 X3 = k30\_modelc\_2 \\ & X0 X3))) \Rightarrow (r2\_funct\_2 (k30\_modelc\_1 (k25\_modelc\_2 X0)) (k30\_modelc\_1 \\ & (k25\_modelc\_2 X0)) X1 X2))) \end{aligned}$$