

t2\_aofa\_i00

(TMEzY6uZEv9QZFjRomyLWWa68aQ77Hj9syB)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v4\_funct\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_aofa\_i00 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v4\_funct\_1 X0)) \Rightarrow (\forall X1. \\ & \forall X2. k1\_aofa\_i00 X0 X1 X2 = ReplSep (toset (\lambda X3 : \iota. m1\_subset\_1 \\ & X3 X0)) (\lambda X3 : \iota. k1\_funct\_1 X3 X1 \neq X2)) (\lambda X3 : \iota. X3)) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v4\_funct\_1 X0)) \Rightarrow (\forall X1. \\ & \forall X2. \forall X3. (m1\_subset\_1 X3 X0) \Rightarrow ((X3 \in k1\_aofa\_i00 X0 \\ & X1 X2) \Leftrightarrow (k1\_funct\_1 X3 X1 \neq X2))) \end{aligned}$$