

# t27\_prob\_1 (TMV- FAZrW7f6YbryiEw1ipTAZ1GVm1P28VCH)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0 : \iota \Rightarrow \iota. \forall X1 : \iota \Rightarrow \iota. \forall X2 : \iota \Rightarrow o. \\
 & \forall X3. \exists X4. ((v1\_relat\_1 X4) \wedge (v1\_funct\_1 X4) \wedge ((k9\_xtuple\_0 \\
 & X4 = X3) \wedge (\forall X5. (X5 \in X3) \Rightarrow (((X2 X5) \Rightarrow (k1\_funct\_1 X4 X5 = X1 X5)) \wedge \\
 & ((\neg X2 X5) \Rightarrow (k1\_funct\_1 X4 X5 = X0 X5))))))
 \end{aligned} \tag{1}$$

## Theorem 1

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X2) \wedge ((v1\_prob\_1 \\
 & X2 X0) \wedge ((v4\_prob\_1 X2 X0) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\
 & X0)))))) \Rightarrow (\exists X3. ((v1\_relat\_1 X3) \wedge (v1\_funct\_1 X3) \wedge ((k9\_xtuple\_0 \\
 & X3 = X2) \wedge (\forall X4. (m1\_subset\_1 X4 (k1\_zfmisc\_1 X0)) \Rightarrow ((X4 \in X2) \Rightarrow \\
 & (((X1 \in X4) \Rightarrow (k1\_funct\_1 X3 X4 = np\_1)) \wedge ((\neg X1 \in X4) \Rightarrow (k1\_funct\_1 \\
 & X3 X4 = k6\_numbers))))))
 \end{aligned}$$