

t33\_rpr\_1 (TMX-  
ugqyMA99kBT6E5wBTsLDQP7vMc5NpuLS)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k2\_rpr\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_subset\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_rpr\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (\forall X1. \\ (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (k2\_rpr\_1 X0 (k2\_subset\_1 X0) \\ X1 = k1\_rpr\_1 X0 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (k1\_rpr\_1 X0 \\ (k2\_subset\_1 X0) = np\_1) \tag{2}$$

Assume the following.

$$\forall X0. m1\_subset\_1 (k2\_subset\_1 X0) (k1\_zfmisc\_1 X0) \tag{3}$$

Assume the following.

$$\forall X0. k2\_subset\_1 X0 = X0 \tag{4}$$

**Theorem 1**

$$\forall X0. ((\neg v1\_xboole\_0 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (k2\_rpr\_1 X0 \\ (k2\_subset\_1 X0) (k2\_subset\_1 X0) = np\_1)$$