

# t6\_ens\_1 (TMVckBroPXWEG- GYe7AccLozsuPLgNbkywYQ)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_ens\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_ens\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k1\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  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  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v4\_funct\_1 (k1\_ens\_1 X0)) \wedge (\neg v1\_xboole\_0 (k1\_ens\_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge (\neg v1\_xboole\_0 X1)) \Rightarrow (\neg v1\_xboole\_0 (k2\_zfmisc\_1 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge ((m1\_subset\_1 X2 X0) \wedge (m1\_subset\_1 X3 X1)))) \Rightarrow (m1\_subset\_1 (k1\_domain\_1 X0 X1 X2 X3) (k2\_zfmisc\_1 X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

Assume the following.

$$\begin{aligned}
\forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow & (k2\_ens\_1 X0 = ReplSep3 (toset (\lambda X1 : \\
& \iota.m1\_subset\_1 X1 X0)) (\lambda X1 : \iota.toset (\lambda X2 : \iota.m1\_subset\_1 \\
& X2 X0)) (\lambda X1 : \iota.\lambda X2 : \iota.toset (\lambda X3 : \iota.m1\_subset\_1 \\
& X3 (k1\_ens\_1 X0))) (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.((X2 = \\
& k1\_xboole\_0) \Rightarrow (X1 = k1\_xboole\_0)) \wedge ((v1\_funct\_1 X3) \wedge ((v1\_funct\_2 \\
& X3 X1 X2) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X2)))))) \\
& (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.k1\_domain\_1 (k2\_zfmisc\_1 \\
& X0 X0) (k1\_ens\_1 X0) (k1\_domain\_1 X0 X0 X1 X2) X3))
\end{aligned} \tag{6}$$

**Theorem 1**

$$\forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (r1\_tarski (k2\_ens\_1 X0) (k2\_zfmisc\_1 \\
(k2\_zfmisc\_1 X0 X0) (k1\_ens\_1 X0)))$$