

# t1\_yellow19 (TMM- brp1LFrrQHnce4ESHGu6YHaLMVrJXDmC)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_yellow\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v13\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 \\ (k3\_yellow\_1 X0)))) \Rightarrow ((v13\_waybel\_0 X1 (k3\_yellow\_1 X0)) \Leftrightarrow (\forall X2. \\ \forall X3. ((r1\_tarski X2 X3) \wedge ((r1\_tarski X3 X0) \wedge (X2 \in X1)))) \Rightarrow ( \\ X3 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1\_xboole\_0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow ((\forall X2. \\ (m1\_subset\_1 X2 X0) \Rightarrow (X2 \in X1)) \Rightarrow (X0 = X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 (k3\_yellow\_1 \\ X0))) \Leftrightarrow (r1\_tarski X1 X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow ((v1\_subset\_1 \\ X1 X0) \Leftrightarrow (X1 \neq X0)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow \\ (X2 \in X1)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0 X1) \wedge \\ ((v1\_subset\_1 X1 (u1\_struct\_0 (k3\_yellow\_1 X0))) \wedge (v2\_waybel\_0 \\ X1 (k3\_yellow\_1 X0)) \wedge (v13\_waybel\_0 X1 (k3\_yellow\_1 X0)) \wedge (m1\_subset\_1 \\ X1 (k1\_zfmisc\_1 (u1\_struct\_0 (k3\_yellow\_1 X0)))))) \Rightarrow (\forall X2. \\ \neg(X2 \in X1) \wedge (v1\_xboole\_0 X2))) \end{aligned}$$