

t9\_yellow\_6  
(TMdBLAupHJhtcqps5ipNjGbg5RgfL31tuW1)

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Let  $l1\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $l1\_orders\_2 : \iota \Rightarrow o$  be given. Let  $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_orders\_2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow (k5\_relat\_1 \\ & (k5\_relat\_1 X2 X0) X1 = k5\_relat\_1 X2 (k3\_xboole\_0 X0 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Rightarrow (k3\_xboole\_0 X0 X1 = X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski \\ & X1 X2)) \Rightarrow (r1\_tarski X0 X2) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1\_funct\_1 X2) \wedge \\ & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))) \Rightarrow (k2\_partfun1 \\ & X0 X1 X2 X3 = k5\_relat\_1 X2 X3) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((l1\_struct\_0 X0) \wedge (l1\_waybel\_0 X1 X0)) \Rightarrow \\ & ((v1\_funct\_1 (u1\_waybel\_0 X0 X1)) \wedge ((v1\_funct\_2 (u1\_waybel\_0 \\ & X0 X1) (u1\_struct\_0 X1) (u1\_struct\_0 X0)) \wedge (m1\_subset\_1 (u1\_waybel\_0 \\ & X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((l1\_struct\_0 X0)\wedge(l1\_waybel\_0 X1 X0))\Rightarrow \\ & (\forall X2.(m1\_yellow\_6 X2 X0 X1)\Rightarrow(l1\_waybel\_0 X2 X0)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.(l1\_struct\_0 X0)\Rightarrow(\forall X1.(l1\_waybel\_0 X1 X0)\Rightarrow(l1\_orders\_2 X1)) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1\_struct\_0 X0)\Rightarrow(\forall X1.(l1\_waybel\_0 X1 X0)\Rightarrow \\ & (\forall X2.(l1\_waybel\_0 X2 X0)\Rightarrow((m1\_yellow\_6 X2 X0 X1)\Leftrightarrow((m1\_yellow\_0 \\ & X2 X1)\wedge(u1\_waybel\_0 X0 X2 = k2\_partfun1 (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0) (u1\_waybel\_0 X0 X1) (u1\_struct\_0 X2)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1\_orders\_2 X0)\Rightarrow(\forall X1.(l1\_orders\_2 X1)\Rightarrow(( \\ & m1\_yellow\_0 X1 X0)\Leftrightarrow((r1\_tarski (u1\_struct\_0 X1) (u1\_struct\_0 \\ & X0))\wedge(r1\_tarski (u1\_orders\_2 X1) (u1\_orders\_2 X0)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.k3\_xboole\_0 X0 X1 = k3\_xboole\_0 X1 X0 \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1)))\Rightarrow(v1\_relat\_1 X2) \end{aligned} \quad (11)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(l1\_struct\_0 X0)\Rightarrow(\forall X1.(l1\_waybel\_0 X1 X0)\Rightarrow \\ & (\forall X2.(m1\_yellow\_6 X2 X0 X1)\Rightarrow(\forall X3.(m1\_yellow\_6 X3 \\ & X0 X2)\Rightarrow(m1\_yellow\_6 X3 X0 X1)))) \end{aligned}$$