t7_waybel35 (TMYe23KPkwv4LsFqYaGm95TwN1rwc68eiAA)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v4\_orders\_2\ X0) \wedge (l1\_orders\_2\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v4\_yellow\_0\ X1\ X0) \wedge (m1\_yellow\_0\ X1\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1))) \Rightarrow (((r1\_yellow\_0\ X0\ X2) \wedge (k1\_yellow\_0\ X0\ X2 \in u1\_struct\_0\ X1)) \Rightarrow ((r1\_yellow\_0\ X1\ X2) \wedge (k1\_yellow\_0\ X1\ X2 = k1\_yellow\_0\ X0\ X2))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))) \Rightarrow ((\neg v2\_struct\_0\ (k5\_yellow\_0\ X0\ X1)) \wedge ((v1\_orders\_2\ (k5\_yellow\_0\ X0\ X1)) \wedge (v4\_yellow\_0\ (k5\_yellow\_0\ X0\ X1)\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_orders\_2\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Rightarrow ((v1\_orders\_2\ (k5\_yellow\_0\ X0\ X1)) \wedge ((v4\_yellow\_0\ (k5\_yellow\_0\ X0\ X1)\ X0) \wedge (m1\_yellow\_0\ (k5\_yellow\_0\ X0\ X1)\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.((v1\_orders\_2\ X2) \wedge ((v4\_yellow\_0\ X2\ X0) \wedge (m1\_yellow\_0\ X2\ X0))) \Rightarrow ((X2 = k5\_yellow\_0\ X0\ X1) \Leftrightarrow (u1\_struct\_0\ X2 = X1)))) \tag{4}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v4\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0)))\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ X1))\Rightarrow(((r1\_yellow\_0\ X0\ X2)\wedge(k1\_yellow\_0\ X0\ X2\in X1))\Rightarrow((r1\_yellow\_0\ (k5\_yellow\_0\ X0\ X1)\ X2)\wedge(k1\_yellow\_0\ X0\ X2 = k1\_yellow\_0\ (k5\_yellow\_0\ X0\ X1)\ X2)))))$$