t28_yellow16 (TMNLhy6qbw9EPRjzVv9MnxHtTkedNneNJeq)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v3\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v24\_waybel\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((\neg v2\_struct\_0\ X1)\wedge(l1\_orders\_2\ X1))\Rightarrow (\forall X2.((\neg v2\_struct\_0\ X2)\wedge(m1\_yellow\_0\ X2\ X1))\Rightarrow((((v1\_waybel\_0\ X0\ X2)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X2))))\Rightarrow((v1\_waybel\_0\ X0\ X1)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1)))))\wedge(((v2\_waybel\_0\ X0\ X2)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X2))))\Rightarrow((v2\_waybel\_0\ X0\ X1)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v4\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0)))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_yellow\_0\ X1\ X0)\wedge((v4\_waybel\_0\ X1\ X0)\wedge(m1\_yellow\_0\ X1\ X0))))\Rightarrow(\forall X2.((v1\_waybel\_0\ X2\ X1)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1))))\Rightarrow((r1\_yellow\_0\ X0\ X2)\Rightarrow((X2 = k1\_xboole\_0)\vee((r1\_yellow\_0\ X1\ X2)\wedge(k1\_yellow\_0\ X1\ X2 = k1\_yellow\_0\ X0\ X2)))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0))))\Rightarrow((v24\_waybel\_0\ X0)\Leftrightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v1\_waybel\_0\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))))\Rightarrow(r1\_yellow\_0\ X0\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(X0 = k1\_xboole\_0) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.((v4\_yellow\_0\ X1\ X0)\wedge (m1\_yellow\_0\ X1\ X0))\Rightarrow(\forall X2.(m1\_yellow\_0\ X2\ X1)\Rightarrow((v4\_yellow\_0\ X2\ X1)\Leftrightarrow((v4\_yellow\_0\ X2\ X0)\wedge(m1\_yellow\_0\ X2\ X0))))) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(m1\_yellow\_0\ X1\ X0)\Rightarrow (l1\_orders\_2\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.(m1\_yellow\_0\ X1\ X0)\Rightarrow((v4\_waybel\_0\ X1\ X0)\Leftrightarrow(\forall X2.((v1\_waybel\_0\ X2\ X1)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1))))\Rightarrow((r1\_yellow\_0\ X0\ X2)\Rightarrow((X2 = k1\_xboole\_0)\vee(k1\_yellow\_0\ X0\ X2 \in u1\_struct\_0\ X1)))))) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v24\_waybel\_0\ X0)\wedge(l1\_orders\_2\ X0))))))\Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v4\_yellow\_0\ X1\ X0)\wedge((v4\_waybel\_0\ X1\ X0)\wedge(m1\_yellow\_0\ X1\ X0))))\Rightarrow(\forall X2.((\neg v2\_struct\_0\ X2)\wedge((v4\_yellow\_0\ X2\ X0)\wedge((v4\_waybel\_0\ X2\ X0)\wedge(m1\_yellow\_0\ X2\ X0))))\Rightarrow((m1\_yellow\_0\ X1\ X2)\Rightarrow((v4\_yellow\_0\ X1\ X2)\wedge((v4\_waybel\_0\ X1\ X2)\wedge (m1\_yellow\_0\ X1\ X2))))))$$