t25_waybel_7 (TMSr9o941wZw3rGwYrAVkTvdUXCkkf79BaR)

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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 $v2\_waybel\_1 : \iota \Rightarrow o$ be given. Let $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v2\_lattice3 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v12\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v13\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_waybel\_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_lattice3 : \iota \Rightarrow \iota$ be given. Let $v1\_waybel\_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.((v12\_waybel\_0\ X1\ (k7\_lattice3\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_lattice3\ X0))))) \Leftrightarrow ((v13\_waybel\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.((v12\_waybel\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Leftrightarrow ((v13\_waybel\_0\ X1\ (k7\_lattice3\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_lattice3\ X0)))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.((v1\_waybel\_0\ X1\ (k7\_lattice3\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_lattice3\ X0))))) \Leftrightarrow ((v2\_waybel\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.((v1\_waybel\_0\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \Leftrightarrow ((v2\_waybel\_0\ X1\ (k7\_lattice3\ X0)) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_lattice3\ X0)))))) \tag{4}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v2\_waybel\_1\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v1\_waybel\_0\ X1\ X0)\wedge((v12\_waybel\_0\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\forall X2.((\neg v1\_xboole\_0\ X2)\wedge((v2\_waybel\_0\ X2\ X0)\wedge((v13\_waybel\_0\ X2\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\neg(r1\_subset\_1\ X1\ X2)\wedge(\forall X3.((\neg v1\_xboole\_0\ X3)\wedge((v1\_waybel\_0\ X3\ X0)\wedge((v12\_waybel\_0\ X3\ X0)\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\neg(v1\_waybel\_7\ X3\ X0)\wedge((r1\_tarski\ X1\ X3)\wedge(r1\_subset\_1\ X3\ X2)))))) \tag{5}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v2\_waybel\_0\ X1\ X0)\wedge((v13\_waybel\_0\ X1\ X0)\wedge((v2\_waybel\_7\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))))\Leftrightarrow((\neg v1\_xboole\_0\ X1)\wedge((v1\_waybel\_0\ X1\ (k7\_lattice3\ X0))\wedge((v12\_waybel\_0\ X1\ (k7\_lattice3\ X0))\wedge((v1\_waybel\_7\ X1\ (k7\_lattice3\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k7\_lattice3\ X0))))))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(\neg v1\_xboole\_0\ X1))\Rightarrow((r1\_subset\_1\ X0\ X1)\Rightarrow(r1\_subset\_1\ X1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v2\_waybel\_1\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v2\_waybel\_1\ (k7\_lattice3\ X0))) \tag{8}$$

Assume the following.

$$\forall X0.((v1\_lattice3\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v2\_lattice3\ (k7\_lattice3\ X0))) \tag{9}$$

Assume the following.

$$\forall X0.((v2\_lattice3\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v1\_lattice3\ (k7\_lattice3\ X0))) \tag{10}$$

Assume the following.

$$\forall X0.((v5\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v5\_orders\_2\ (k7\_lattice3\ X0))) \tag{11}$$

Assume the following.

$$\forall X0.((v4\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v4\_orders\_2\ (k7\_lattice3\ X0))) \tag{12}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(v3\_orders\_2\ (k7\_lattice3\ X0))) \tag{13}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow((v1\_orders\_2\ (k7\_lattice3\ X0))\wedge(l1\_orders\_2\ (k7\_lattice3\ X0))) \tag{14}$$

Theorem 1

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v2\_waybel\_1\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v1\_waybel\_0\ X1\ X0)\wedge((v12\_waybel\_0\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\forall X2.((\neg v1\_xboole\_0\ X2)\wedge((v2\_waybel\_0\ X2\ X0)\wedge((v13\_waybel\_0\ X2\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\neg(r1\_subset\_1\ X1\ X2)\wedge(\forall X3.((\neg v1\_xboole\_0\ X3)\wedge((v2\_waybel\_0\ X3\ X0)\wedge((v13\_waybel\_0\ X3\ X0)\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))))))\Rightarrow(\neg(v2\_waybel\_7\ X3\ X0)\wedge((r1\_tarski\ X2\ X3)\wedge(r1\_subset\_1\ X1\ X3)))))))$$