t29_waybel15 (TM-crw5N1fEBa6M4Lw3kgYkQxjXFBTMnsF73)

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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 $v1\_lattice3 : \iota \Rightarrow o$ be given. Let $v2\_lattice3 : \iota \Rightarrow o$ be given. Let $v11\_waybel\_1 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v3\_waybel\_8 : \iota \Rightarrow o$ be given. Let $v3\_waybel\_3 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $r5\_waybel\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_lattice3 : \iota \Rightarrow o$ be given. Let $v1\_waybel\_5 : \iota \Rightarrow o$ be given. Let $v2\_waybel\_1 : \iota \Rightarrow o$ be given. Let $k7\_lattice3 : \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_waybel15 : \iota \Rightarrow \iota$ be given. Let $k1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v3\_yellow\_0 : \iota \Rightarrow o$ be given. Let $v10\_waybel\_1 : \iota \Rightarrow o$ be given. Let $v1\_yellow\_0 : \iota \Rightarrow o$ be given. Let $v2\_yellow\_0 : \iota \Rightarrow o$ be given. Let $v24\_waybel\_0 : \iota \Rightarrow o$ be given. Let $v2\_waybel\_3 : \iota \Rightarrow o$ be given. Let $v2\_waybel\_8 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge (l1\_orders\_2\ X0))))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v3\_orders\_2\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v5\_orders\_2\ X1) \wedge (l1\_orders\_2\ X1))))) \Rightarrow (((r5\_waybel\_1\ X0\ X1) \wedge (v3\_waybel\_3\ X0)) \Rightarrow (v3\_waybel\_3\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge ((v3\_lattice3\ X0) \wedge (l1\_orders\_2\ X0))))))) \Rightarrow ((v1\_waybel\_5\ X0) \Leftrightarrow ((v2\_waybel\_1\ X0) \wedge ((v3\_waybel\_3\ X0) \wedge (v3\_waybel\_3\ (k7\_lattice3\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge ((v11\_waybel\_1\ X0) \wedge (l1\_orders\_2\ X0))))))) \Rightarrow (r5\_waybel\_1\ X0\ (k7\_lattice3\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v11\_waybel\_1\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow((v3\_waybel\_8\ X0)\Leftrightarrow(\exists X1.r5\_waybel\_1\ X0\ (k3\_yellow\_1\ X1))) \tag{4}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v11\_waybel\_1\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow(\neg(v3\_lattice3\ X0)\wedge((\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\exists X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\wedge((r1\_tarski\ X2\ (k1\_waybel15\ X0))\wedge(X1 = k1\_yellow\_0\ X0\ X2))))\wedge(\forall X1.\neg r5\_waybel\_1\ X0\ (k3\_yellow\_1\ X1)))) \tag{5}$$

Assume the following.

$$\forall X0.((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v11\_waybel\_1\ X0)\wedge(l1\_orders\_2\ X0)))))))\Rightarrow((v1\_waybel\_5\ X0)\Rightarrow((v3\_lattice3\ X0)\wedge(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\exists X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\wedge((r1\_tarski\ X2\ (k1\_waybel15\ X0))\wedge(X1 = k1\_yellow\_0\ X0\ X2)))))) \tag{6}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow((\neg v2\_struct\_0\ (k7\_lattice3\ X0))\wedge(v1\_orders\_2\ (k7\_lattice3\ X0))) \tag{7}$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(((\neg v2\_struct\_0\ X0)\wedge(v11\_waybel\_1\ X0))\Rightarrow((\neg v2\_struct\_0\ X0)\wedge((v3\_orders\_2\ X0)\wedge((v4\_orders\_2\ X0)\wedge((v5\_orders\_2\ X0)\wedge((v1\_lattice3\ X0)\wedge((v2\_lattice3\ X0)\wedge((v3\_yellow\_0\ X0)\wedge((v2\_waybel\_1\ X0)\wedge(v10\_waybel\_1\ X0)))))))))) \tag{10}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v3\_yellow\_0\ X0) \Rightarrow ((v1\_yellow\_0\ X0) \wedge (v2\_yellow\_0\ X0))) \tag{11}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge (v3\_waybel\_3\ X0))) \Rightarrow ((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v24\_waybel\_0\ X0) \wedge (v2\_waybel\_3\ X0))))) \tag{12}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge (v3\_waybel\_8\ X0)))))) \Rightarrow ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge (v2\_waybel\_8\ X0))))))) \tag{13}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge (v2\_waybel\_8\ X0)))))) \Rightarrow ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge (v3\_waybel\_3\ X0))))))) \tag{14}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v1\_lattice3\ X0) \Rightarrow (\neg v2\_struct\_0\ X0)) \tag{15}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v1\_yellow\_0\ X0) \wedge (v24\_waybel\_0\ X0))))))) \Rightarrow ((\neg v2\_struct\_0\ X0) \wedge ((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge (v3\_lattice3\ X0)))))) \tag{16}$$

Theorem 1

$$\forall X0.((v3\_orders\_2\ X0) \wedge ((v4\_orders\_2\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v1\_lattice3\ X0) \wedge ((v2\_lattice3\ X0) \wedge ((v11\_waybel\_1\ X0) \wedge (l1\_orders\_2\ X0))))))) \Rightarrow ((v3\_waybel\_8\ X0) \Leftrightarrow (v3\_waybel\_3\ X0))$$