t16_waybel10 (TMWX22k9PtZ1cktHVuR3Cz1knxEMqeFPwsY)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k4\_waybel10 : \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $v4\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_waybel10 : \iota \Rightarrow \iota$ be given. Let $r1\_orders\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow ((\neg v2\_struct\_0\ (k4\_waybel10\ X0)) \wedge ((v1\_orders\_2\ (k4\_waybel10\ X0)) \wedge ((v4\_yellow\_0\ (k4\_waybel10\ X0)\ (k3\_waybel10\ X0)) \wedge (m1\_yellow\_0\ (k4\_waybel10\ X0)\ (k3\_waybel10\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((\neg v2\_struct\_0\ (k3\_waybel10\ X0)) \wedge ((v1\_orders\_2\ (k3\_waybel10\ X0)) \wedge (l1\_orders\_2\ (k3\_waybel10\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.\ ((\neg v2\_struct\_0\ X1) \wedge ((v1\_orders\_2\ X1) \wedge ((v4\_yellow\_0\ X1\ (k3\_waybel10\ X0)) \wedge (m1\_yellow\_0\ X1\ (k3\_waybel10\ X0))))) \Rightarrow ((X1 = k4\_waybel10\ X0) \Leftrightarrow (\forall X2.((v1\_orders\_2\ X2) \wedge (m1\_yellow\_0\ X2\ X0)) \Rightarrow ((m1\_subset\_1\ X2\ (u1\_struct\_0\ X1)) \Leftrightarrow ((v7\_yellow\_0\ X2\ X0) \wedge (v4\_yellow\_0\ X2\ X0))))))) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge((v1\_orders\_2\ X1)\wedge(l1\_orders\_2\ X1)))\Rightarrow((X1 = k3\_waybel10\ X0)\Leftrightarrow((\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X1))\Leftrightarrow((v1\_orders\_2\ X2)\wedge(m1\_yellow\_0\ X2\ X0)))\wedge(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X1))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X1))\Rightarrow((r1\_orders\_2\ X1\ X2\ X3)\Leftrightarrow(\exists X4.(l1\_orders\_2\ X4)\wedge((X3 = X4)\wedge(m1\_yellow\_0\ X2\ X4)))))))))) \tag{5}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k4\_waybel10\ X0)))\Leftrightarrow((v1\_orders\_2\ X1)\wedge((v4\_yellow\_0\ X1\ X0)\wedge((v7\_yellow\_0\ X1\ X0)\wedge(m1\_yellow\_0\ X1\ X0)))))$$