t14_waybel19 (TM-cyD1YN8bTdY1WiyQEqVxKJF4XBiNwNBA9)

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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 $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $u1\_orders\_2 : \iota \Rightarrow \iota$ be given. Let $k2\_yellow\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge (l1\_orders\_2\ X1)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X1)) \Rightarrow (k6\_yellow\_3\ X0\ X1\ (k6\_waybel\_0\ X0\ X2)\ (k6\_waybel\_0\ X1\ X3) = k6\_waybel\_0\ (k3\_yellow\_3\ X0\ X1)\ (k7\_yellow\_3\ X0\ X1\ X2\ X3)))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k4\_xboole\_0\ (k2\_zfmisc\_1\ X0\ X1)\ (k2\_zfmisc\_1\ X2\ X3) = k2\_xboole\_0\ (k2\_zfmisc\_1\ (k4\_xboole\_0\ X0\ X2)\ X1)\ (k2\_zfmisc\_1\ X0\ (k4\_xboole\_0\ X1\ X3)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((l1\_orders\_2\ X0) \wedge ((l1\_orders\_2\ X1) \wedge ((m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1)))))) \Rightarrow (k6\_yellow\_3\ X0\ X1\ X2\ X3 = k2\_zfmisc\_1\ X2\ X3) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((l1\_orders\_2\ X0)\wedge ((l1\_orders\_2\ X1)\wedge((m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X1))))))\Rightarrow(m1\_subset\_1\ (k6\_yellow\_3\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_3\ X0\ X1)))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)))\Rightarrow(m1\_subset\_1\ (k6\_waybel\_0\ X0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_orders\_2\ X0)\wedge(l1\_orders\_2\ X1))\Rightarrow((v1\_orders\_2\ (k3\_yellow\_3\ X0\ X1))\wedge(l1\_orders\_2\ (k3\_yellow\_3\ X0\ X1))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(k3\_subset\_1\ X0\ X1 = k4\_xboole\_0\ X0\ X1) \tag{7}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0)\Rightarrow(\forall X1.(l1\_orders\_2\ X1)\Rightarrow(\forall X2.((v1\_orders\_2\ X2)\wedge(l1\_orders\_2\ X2))\Rightarrow((X2 = k3\_yellow\_3\ X0\ X1)\Leftrightarrow((u1\_struct\_0\ X2 = k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge (u1\_orders\_2\ X2 = k2\_yellow\_3\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1)\ (u1\_struct\_0\ X1)\ (u1\_orders\_2\ X0)\ (u1\_orders\_2\ X1)))))) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_orders\_2\ X0))\Rightarrow(\forall X1.((\neg v2\_struct\_0\ X1)\wedge(l1\_orders\_2\ X1))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X1))\Rightarrow(k3\_subset\_1\ (u1\_struct\_0\ (k3\_yellow\_3\ X0\ X1))\ (k6\_waybel\_0\ (k3\_yellow\_3\ X0\ X1)\ (k7\_yellow\_3\ X0\ X1\ X2\ X3)) = k2\_xboole\_0\ (k2\_zfmisc\_1\ (k3\_subset\_1\ (u1\_struct\_0\ X0)\ (k6\_waybel\_0\ X0\ X2))\ (u1\_struct\_0\ X1))\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (k3\_subset\_1\ (u1\_struct\_0\ X1)\ (k6\_waybel\_0\ X1\ X3)))))))$$