t29_waybel_7 (TMc5HsNqifXMDcfHFGPCHP7bqKoTGSg197T)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_yellow\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_pre\_topc : \iota \Rightarrow \iota$ be given. Let $r1\_waybel\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v2\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_yellow\_1 : \iota \Rightarrow \iota$ be given. Let $v13\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_waybel\_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $r2\_waybel\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_waybel\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ 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 $l1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0)))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0)))) \Rightarrow ((r1\_waybel\_3\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0))\ X1\ X2) \Rightarrow (\forall X3.((\neg v1\_xboole\_0\ X3) \wedge ((v1\_subset\_1\ X3\ (u1\_struct\_0\ (k3\_yellow\_1\ (u1\_struct\_0\ X0)))) \wedge ((v2\_waybel\_0\ X3\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))) \wedge ((v13\_waybel\_0\ X3\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_1\ (u1\_struct\_0\ X0)))))))))) \Rightarrow (\neg(X1 \in X3) \wedge (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0)) \Rightarrow (\neg(X4 \in X2) \wedge (r1\_waybel\_7\ X0\ X3\ X4)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v2\_waybel\_0\ X1\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))) \wedge ((v13\_waybel\_0\ X1\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))) \wedge ((v3\_waybel\_7\ X1\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))))))))) \Rightarrow (\forall X2.(r1\_waybel\_7\ X0\ X1\ X2) \Leftrightarrow (r2\_waybel\_7\ X0\ X1\ X2))) \tag{2}$$

Assume the following.

$$\forall X0.(\neg v2\_struct\_0\ (k3\_yellow\_1\ X0))\wedge((v1\_orders\_2\ (k3\_yellow\_1\ X0))\wedge((v3\_orders\_2\ (k3\_yellow\_1\ X0))\wedge((v4\_orders\_2\ (k3\_yellow\_1\ X0))\wedge(v5\_orders\_2\ (k3\_yellow\_1\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_orders\_2\ (k3\_yellow\_1\ X0))\wedge(l1\_orders\_2\ (k3\_yellow\_1\ X0)) \tag{4}$$

Assume the following.

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

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0))))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0))))\Rightarrow((r1\_waybel\_3\ (k2\_yellow\_1\ (u1\_pre\_topc\ X0))\ X1\ X2)\Rightarrow(\forall X3.((\neg v1\_xboole\_0\ X3)\wedge((v2\_waybel\_0\ X3\ (k3\_yellow\_1\ (u1\_struct\_0\ X0)))\wedge((v13\_waybel\_0\ X3\ (k3\_yellow\_1\ (u1\_struct\_0\ X0)))\wedge((v3\_waybel\_7\ X3\ (k3\_yellow\_1\ (u1\_struct\_0\ X0)))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_yellow\_1\ (u1\_struct\_0\ X0))))))))))\Rightarrow(\neg(X1\in X3)\wedge(\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ X0))\Rightarrow(\neg(X4\in X2)\wedge(r2\_waybel\_7\ X0\ X3\ X4))))))))$$