t33_waybel25 (TMYRDZs4yVP8PSjQEoXGxByzmjw8nsd3aTh)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $v1\_waybel25 : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $v4\_orders\_2 : \iota \Rightarrow o$ be given. Let $v7\_waybel\_0 : \iota \Rightarrow o$ be given. Let $v10\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_waybel25 : \iota \Rightarrow \iota$ be given. Let $l1\_waybel\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_waybel\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_yellow\_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_waybel\_9 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $l1\_waybel\_9 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(X0 \in X1) \wedge (v1\_xboole\_0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge ((v1\_waybel25\ X0) \wedge (l1\_pre\_topc\ X0)))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v7\_waybel\_0\ X1) \wedge ((v10\_waybel\_0\ X1\ (k1\_waybel25\ X0)) \wedge (l1\_waybel\_0\ X1\ (k1\_waybel25\ X0)))))) \Rightarrow (k1\_waybel\_2\ (k1\_waybel25\ X0)\ X1 \in k10\_yellow\_6\ (k1\_waybel25\ X0)\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow ((v2\_pre\_topc\ (k1\_waybel25\ X0)) \wedge (v1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow ((\neg v2\_struct\_0\ (k1\_waybel25\ X0)) \wedge (v1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{4}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.(l1\_waybel\_9\ X0) \Rightarrow ((l1\_pre\_topc\ X0) \wedge (l1\_orders\_2\ X0)) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow ((v1\_waybel\_9\ (k1\_waybel25\ X0)) \wedge (l1\_waybel\_9\ (k1\_waybel25\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v7\_waybel\_0\ X1) \wedge (l1\_waybel\_0\ X1\ X0)))) \Rightarrow ((v3\_yellow\_6\ X1\ X0) \Leftrightarrow (k10\_yellow\_6\ X0\ X1 \neq k1\_xboole\_0))) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_pre\_topc\ X0) \wedge ((v1\_waybel25\ X0) \wedge (l1\_pre\_topc\ X0)))) \Rightarrow (\forall X1.((\neg v2\_struct\_0\ X1) \wedge ((v4\_orders\_2\ X1) \wedge ((v7\_waybel\_0\ X1) \wedge ((v10\_waybel\_0\ X1\ (k1\_waybel25\ X0)) \wedge (l1\_waybel\_0\ X1\ (k1\_waybel25\ X0)))))) \Rightarrow (v3\_yellow\_6\ X1\ (k1\_waybel25\ X0)))$$