t34_yellow_7 (TMKhfyFnhxuQi-HZNw1BynxKsCpsKxV8EMzh)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v5\_orders\_2 : \iota \Rightarrow o$ be given. Let $v2\_yellow\_0 : \iota \Rightarrow o$ be given. Let $l1\_orders\_2 : \iota \Rightarrow o$ be given. Let $k8\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_yellow\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_yellow\_0 : \iota \Rightarrow \iota$ be given. Let $k7\_lattice3 : \iota \Rightarrow \iota$ be given. Let $k9\_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $r1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_yellow\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_orders\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v2\_yellow\_0\ X0) \wedge (l1\_orders\_2\ X0)))) \Rightarrow ((r2\_yellow\_0\ X0\ k1\_xboole\_0) \wedge (r1\_yellow\_0\ X0\ (u1\_struct\_0\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_orders\_2\ X0)) \Rightarrow (\forall X1.((r2\_yellow\_0\ X0\ X1) \vee (r1\_yellow\_0\ (k7\_lattice3\ X0)\ X1)) \Rightarrow (k2\_yellow\_0\ X0\ X1 = k1\_yellow\_0\ (k7\_lattice3\ X0)\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow ((v1\_orders\_2\ (k7\_lattice3\ X0)) \wedge (l1\_orders\_2\ (k7\_lattice3\ X0))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (m1\_subset\_1\ (k4\_yellow\_0\ X0)\ (u1\_struct\_0\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (m1\_subset\_1\ (k3\_yellow\_0\ X0)\ (u1\_struct\_0\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k7\_lattice3\ X0))) \Rightarrow (k9\_lattice3\ X0\ X1 = X1)) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (k8\_lattice3\ X0\ X1 = X1)) \tag{7}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (k4\_yellow\_0\ X0 = k2\_yellow\_0\ X0\ k1\_xboole\_0) \tag{8}$$

Assume the following.

$$\forall X0.(l1\_orders\_2\ X0) \Rightarrow (k3\_yellow\_0\ X0 = k1\_yellow\_0\ X0\ k1\_xboole\_0) \tag{9}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v5\_orders\_2\ X0) \wedge ((v2\_yellow\_0\ X0) \wedge (l1\_orders\_2\ X0)))) \Rightarrow ((k8\_lattice3\ X0\ (k4\_yellow\_0\ X0) = k3\_yellow\_0\ (k7\_lattice3\ X0)) \wedge (k9\_lattice3\ X0\ (k3\_yellow\_0\ (k7\_lattice3\ X0)) = k4\_yellow\_0\ X0))$$