

t4\_net\_1  
(TMagZzmvX69Mgh7L3bsvp7C41jymp9iWKV)

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Let  $v1\_net\_1 : \iota \Rightarrow o$  be given. Let  $l1\_petri : \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $u4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_net\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1\_xboole\_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1\_xboole\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (l1\_petri X0) \Rightarrow ((v1\_net\_1 X0) \Leftrightarrow ((r1\_xboole\_0 (u1\_struct\_0 X0) (u4\_struct\_0 X0)) \wedge (r1\_tarski (k1\_net\_1 X0) (k2\_xboole\_0 (k2\_zfmisc\_1 (u1\_struct\_0 X0) (u4\_struct\_0 X0)) (k2\_zfmisc\_1 (u4\_struct\_0 X0) (u1\_struct\_0 X0)))))) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. ((v1\_net\_1 X1) \wedge (l1\_petri X1)) \Rightarrow (\neg(X0 \in u1\_struct\_0 X1) \wedge (X0 \in u4\_struct\_0 X1))$$