

## t16\_net\_1

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Let  $v1\_net\_1 : \iota \Rightarrow o$  be given. Let  $l1\_petri : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_net\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_net\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k3\_net\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 X0) \Rightarrow ((X0 \neq k1\_xboole\_0) \Rightarrow (m1\_subset\_1 (k1\_tarski X1) (k1\_zfmisc\_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. ((v1\_net\_1 X0) \wedge (l1\_petri X0)) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k2\_net\_1 X0)) \Rightarrow (\neg(k2\_net\_1 X0 \neq k1\_xboole\_0) \wedge ((k5\_net\_1 X0 X1 \neq k1\_tarski X1) \wedge (k5\_net\_1 X0 X1 \neq k3\_net\_1 X0 X1)))) \quad (3)$$

Assume the following.

$$\forall X0. ((v1\_net\_1 X0) \wedge (l1\_petri X0)) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k2\_net\_1 X0)) \Rightarrow (r1\_tarski (k3\_net\_1 X0 X1) (k2\_net\_1 X0))) \quad (4)$$

### Theorem 1

$$\forall X0. ((v1\_net\_1 X0) \wedge (l1\_petri X0)) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k2\_net\_1 X0)) \Rightarrow ((k2\_net\_1 X0 \neq k1\_xboole\_0) \Rightarrow (r1\_tarski (k5\_net\_1 X0 X1) (k2\_net\_1 X0))))$$