

t16\_e\_siec (TM-  
FuyqH2eAyspHAQGUYfuSKqT1D2dEScZaq)

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Let  $v2\_e\_siec : \iota \Rightarrow o$  be given. Let  $v3\_e\_siec : \iota \Rightarrow o$  be given. Let  $l1\_e\_siec : \iota \Rightarrow o$  be given. Let  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_e\_siec : \iota \Rightarrow \iota$  be given. Let  $k4\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $u2\_e\_siec : \iota \Rightarrow \iota$  be given. Let  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(r1\_tarSKI X0 k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.r1\_tarSKI (k4\_xboole\_0 X0 X1) X0 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.(v1\_relat\_1 X1) \Rightarrow (\forall X2. \\ (v1\_relat\_1 X2) \Rightarrow ((r1\_tarSKI X0 X1) \Rightarrow (r1\_tarSKI (k3\_relat\_1 X0 \\ X2) (k3\_relat\_1 X1 X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v2\_e\_siec X0) \wedge ((v3\_e\_siec X0) \wedge (l1\_e\_siec X0))) \Rightarrow \\ ((k3\_relat\_1 (u1\_e\_siec X0) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 \\ (u1\_struct\_0 X0))) = k1\_xboole\_0) \wedge (k3\_relat\_1 (u2\_e\_siec X0) \\ (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = k1\_xboole\_0)) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1 X0) \Rightarrow (v1\_relat\_1 (k4\_xboole\_0 X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(l1\_e\_siec X0) \Rightarrow (v1\_relat\_1 (u2\_e\_siec X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l1\_e\_siec\ X0)\Rightarrow(v1\_relat\_1\ (u1\_e\_siec\ X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1\_e\_siec\ X0)\Rightarrow((v3\_e\_siec\ X0)\Leftrightarrow((k3\_relat\_1\ (u1\_e\_siec \\ X0)\ (k4\_xboole\_0\ (u1\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0))) = \\ k1\_xboole\_0)\wedge(k3\_relat\_1\ (u2\_e\_siec\ X0)\ (k4\_xboole\_0\ (u2\_e\_siec \\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0))) = k1\_xboole\_0))) \end{aligned} \quad (8)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v2\_e\_siec\ X0)\wedge((v3\_e\_siec\ X0)\wedge(l1\_e\_siec\ X0)))\Rightarrow \\ ((k3\_relat\_1\ (k4\_xboole\_0\ (u1\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0 \\ X0)))\ (k4\_xboole\_0\ (u1\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0))) = \\ k1\_xboole\_0)\wedge((k3\_relat\_1\ (k4\_xboole\_0\ (u2\_e\_siec\ X0)\ (k4\_relat\_1 \\ (u1\_struct\_0\ X0)))\ (k4\_xboole\_0\ (u2\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0 \\ X0))) = k1\_xboole\_0)\wedge((k3\_relat\_1\ (k4\_xboole\_0\ (u1\_e\_siec\ X0) \\ (k4\_relat\_1\ (u1\_struct\_0\ X0)))\ (k4\_xboole\_0\ (u2\_e\_siec\ X0)\ (k4\_relat\_1 \\ (u1\_struct\_0\ X0))) = k1\_xboole\_0)\wedge(k3\_relat\_1\ (k4\_xboole\_0\ ( \\ u2\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0)))\ (k4\_xboole\_0\ (u1\_e\_siec \\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0))) = k1\_xboole\_0)))) \end{aligned}$$