t10_e_siec (TMMuniFaF9rCAkbRojdWLSERiozsvFLJdC7)

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Let $v2\_e\_siec : \iota \Rightarrow o$ be given. Let $g1\_e\_siec : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $v3\_e\_siec : \iota \Rightarrow o$ be given. Let $l1\_e\_siec : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_e\_siec : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.r1\_tarski\ X0\ (k2\_xboole\_0\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k4\_xboole\_0\ X0\ (k2\_xboole\_0\ X0\ X1) = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1\_tarski\ X0\ X1) \wedge (r1\_tarski\ X1\ X2)) \Rightarrow (r1\_tarski\ X0\ X2) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ X1) \Rightarrow (\forall X2.(v1\_relat\_1\ X2) \Rightarrow (((v2\_e\_siec\ (g1\_e\_siec\ X0\ X1\ X2)) \wedge ((v3\_e\_siec\ (g1\_e\_siec\ X0\ X1\ X2)) \wedge (l1\_e\_siec\ (g1\_e\_siec\ X0\ X1\ X2)))) \Leftrightarrow ((r1\_tarski\ X1\ (k2\_zfmisc\_1\ X0\ X0)) \wedge ((r1\_tarski\ X2\ (k2\_zfmisc\_1\ X0\ X0)) \wedge ((k3\_relat\_1\ X1\ X1 = X1) \wedge ((k3\_relat\_1\ X1\ X2 = X1) \wedge ((k3\_relat\_1\ X2\ X2 = X2) \wedge ((k3\_relat\_1\ X2\ X1 = X2) \wedge ((k3\_relat\_1\ X1\ (k4\_xboole\_0\ X1\ (k4\_relat\_1\ X0)) = k1\_xboole\_0) \wedge (k3\_relat\_1\ X2\ (k4\_xboole\_0\ X2\ (k4\_relat\_1\ X0)) = k1\_xboole\_0)))))))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(k4\_relat\_1\ (k2\_xboole\_0\ X0\ X1) = k2\_xboole\_0\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X1))\wedge((k4\_relat\_1\ (k3\_xboole\_0\ X0\ X1) = k3\_xboole\_0\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X1))\wedge(k4\_relat\_1\ (k6\_subset\_1\ X0\ X1) = k6\_subset\_1\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X1))) \tag{6}$$

Assume the following.

$$\forall X0.k3\_relat\_1\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X0) = k4\_relat\_1\ X0 \tag{7}$$

Assume the following.

$$\forall X0.r1\_tarski\ (k4\_relat\_1\ X0)\ (k2\_zfmisc\_1\ X0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ (k4\_relat\_1\ X0))\wedge(v1\_funct\_1\ (k4\_relat\_1\ X0)) \tag{9}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xboole\_0\ X0)\wedge(v1\_relat\_1\ X1))\Rightarrow((v1\_xboole\_0\ (k3\_relat\_1\ X1\ X0))\wedge(v1\_relat\_1\ (k3\_relat\_1\ X1\ X0))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_relat\_1\ X1)\wedge(v1\_relat\_1\ X2))\Rightarrow((v1\_e\_siec\ (g1\_e\_siec\ X0\ X1\ X2))\wedge(l1\_e\_siec\ (g1\_e\_siec\ X0\ X1\ X2))) \tag{12}$$

Theorem 1

$$\forall X0.\forall X1.(v2\_e\_siec\ (g1\_e\_siec\ (k2\_xboole\_0\ X0\ X1)\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X0)))\wedge((v3\_e\_siec\ (g1\_e\_siec\ (k2\_xboole\_0\ X0\ X1)\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X0)))\wedge(l1\_e\_siec\ (g1\_e\_siec\ (k2\_xboole\_0\ X0\ X1)\ (k4\_relat\_1\ X0)\ (k4\_relat\_1\ X0))))$$