t11_conlat_1 (TMMF86Agd7gK2vFxhGsUL1GhyFNazEwtyjm)

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Let $v1\_conlat\_1 : \iota \Rightarrow o$ be given. Let $l1\_conlat\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $u4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_conlat\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_conlat\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8\_mcart\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_conlat\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v1\_conlat\_1\ X0) \wedge (l1\_conlat\_1\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u4\_struct\_0\ X0))) \Rightarrow ((r1\_tarski\ X1\ (k3\_funct\_2\ (k1\_zfmisc\_1\ (u4\_struct\_0\ X0))\ (k9\_setfam\_1\ (u1\_struct\_0\ X0))\ (k2\_conlat\_1\ X0)\ X2)) \Leftrightarrow (r1\_relset\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (k8\_mcart\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ X1\ X2)\ (u1\_conlat\_1\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v1\_conlat\_1\ X0) \wedge (l1\_conlat\_1\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u4\_struct\_0\ X0))) \Rightarrow ((r1\_tarski\ X2\ (k3\_funct\_2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))\ (k9\_setfam\_1\ (u4\_struct\_0\ X0))\ (k1\_conlat\_1\ X0)\ X1)) \Leftrightarrow (r1\_relset\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ (k8\_mcart\_1\ (u1\_struct\_0\ X0)\ (u4\_struct\_0\ X0)\ X1\ X2)\ (u1\_conlat\_1\ X0))))) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v1\_conlat\_1\ X0)\wedge(l1\_conlat\_1\ X0))\Rightarrow(\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X2.\ (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u4\_struct\_0\ X0)))\Rightarrow((r1\_tarski\ X1\ (k3\_funct\_2\ (k1\_zfmisc\_1\ (u4\_struct\_0\ X0))\ (k9\_setfam\_1\ (u1\_struct\_0\ X0))\ (k2\_conlat\_1\ X0)\ X2))\Leftrightarrow(r1\_tarski\ X2\ (k3\_funct\_2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))\ (k9\_setfam\_1\ (u4\_struct\_0\ X0))\ (k1\_conlat\_1\ X0)\ X1)))))$$