t2_conmetr (TMcYHpCEguZajg-TyTmSBT7aHDdiKUDYP6VE)

October 27, 2020

Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v3\_analmetr : \iota \Rightarrow o$ be given. Let $l1\_analmetr : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $r5\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_analmetr : \iota \Rightarrow o$ be given. Let $k3\_analmetr : \iota \Rightarrow \iota$ be given. Let $r1\_aff\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_diraf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $v1\_analoaf : \iota \Rightarrow o$ be given. Let $v2\_diraf : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_analmetr\ X0) \wedge (l1\_analmetr\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X5.(m1\_subset\_1\ X5\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X6.(m1\_subset\_1\ X6\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (((X1 = X4) \wedge ((X2 = X5) \wedge (X3 = X6))) \Rightarrow ((r5\_analmetr\ X0\ X1\ X2\ X3) \Leftrightarrow (r1\_aff\_1\ (k3\_analmetr\ X0)\ X4\ X5\ X6)))))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_analmetr\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Leftrightarrow (m1\_subset\_1\ X1\ (u1\_struct\_0\ (k3\_analmetr\ X0)))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge ((v1\_diraf\ X0) \wedge (l1\_analoaf\ X0))) \Rightarrow ((\exists X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \wedge (\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \wedge (\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \wedge ((r1\_aff\_1\ X0\ X1\ X2\ X3) \wedge ((X1 \neq X2) \wedge ((X1 \neq X3) \wedge (X2 \neq X3))))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0)) \wedge ((r1\_aff\_1\ X0\ X1\ X2\ X3) \wedge ((X1 \neq X3) \wedge (X2 \neq X3))))))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_analmetr\ X0)\wedge(l1\_analmetr\ X0)))\Rightarrow(\exists X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\wedge(\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\wedge(\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\wedge((r5\_analmetr\ X0\ X1\ X2\ X3)\wedge((X1{\neq}X2)\wedge((X2{\neq}X3)\wedge(X3{\neq}X1)))))))) \tag{4}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_analmetr\ X0)\wedge(l1\_analmetr\ X0)))\Rightarrow((\neg v7\_struct\_0\ (k3\_analmetr\ X0))\wedge((v1\_analoaf\ (k3\_analmetr\ X0))\wedge((v1\_diraf\ (k3\_analmetr\ X0))\wedge(v2\_diraf\ (k3\_analmetr\ X0))))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\Rightarrow((v1\_analoaf\ (k3\_analmetr\ X0))\wedge(l1\_analoaf\ (k3\_analmetr\ X0))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_analmetr\ X0)\Rightarrow(((\neg v2\_struct\_0\ X0)\wedge(v3\_analmetr\ X0))\Rightarrow((\neg v2\_struct\_0\ X0)\wedge(v2\_analmetr\ X0))) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v3\_analmetr\ X0)\wedge(l1\_analmetr\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\wedge((r5\_analmetr\ X0\ X1\ X2\ X3)\wedge((X1{\neq}X3)\wedge(X2{\neq}X3)))))))$$