t43_analmetr (TMZr2gzREdmWuEU2HgPjxY2aL3K85jgrHCg)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_analmetr : \iota \Rightarrow o$ be given. Let $l1\_analmetr : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_analmetr : \iota \Rightarrow \iota$ be given. Let $v4\_analmetr : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_aff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_aff\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_analoaf : \iota \Rightarrow o$ be given. Let $v1\_diraf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_analmetr\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Leftrightarrow (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_analmetr\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_analmetr\ X0) \wedge (l1\_analmetr\ X0))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X2.\ (m1\_subset\_1\ X2\ (u1\_struct\_0\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (\forall X4.(m1\_subset\_1\ X4\ (u1\_struct\_0\ (k3\_analmetr\ X0))) \Rightarrow (((X1 = X3) \wedge (X2 = X4)) \Rightarrow (k4\_analmetr\ X0\ X1\ X2 = k2\_aff\_1\ (k3\_analmetr\ X0)\ X3\ X4))))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge (l1\_analmetr\ X0)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Leftrightarrow (m1\_subset\_1\ X1\ (u1\_struct\_0\ (k3\_analmetr\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v2\_analmetr\ X0) \wedge (l1\_analmetr\ X0))) \Rightarrow ((\neg v7\_struct\_0\ (k3\_analmetr\ X0)) \wedge ((v1\_analoaf\ (k3\_analmetr\ X0)) \wedge (v1\_diraf\ (k3\_analmetr\ X0)))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\wedge((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))))\Rightarrow(m1\_subset\_1\ (k4\_analmetr\ X0\ X1\ X2)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \tag{5}$$

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.

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v1\_diraf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow((v1\_aff\_1\ X1\ X0)\Leftrightarrow(\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\wedge(\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\wedge((X2\neq X3)\wedge(X1 = k2\_aff\_1\ X0\ X2\ X3)))))) \tag{7}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analmetr\ X0))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow((v4\_analmetr\ X1\ X0)\Leftrightarrow(\exists X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\wedge(\exists X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ X0))\wedge((X2\neq X3)\wedge(X1 = k4\_analmetr\ X0\ X2\ X3)))))) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v2\_analmetr\ X0)\wedge(l1\_analmetr\ X0)))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k3\_analmetr\ X0)))))\Rightarrow((X1 = X2)\Rightarrow((v4\_analmetr\ X1\ X0)\Leftrightarrow(v1\_aff\_1\ X2\ (k3\_analmetr\ X0))))))$$