t19_analmetr (TMJG5DdquAGLFN5xay12TsGYV6KfDfgRton)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v5\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v6\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v7\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v8\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $l1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_analoaf : \iota \Rightarrow \iota$ be given. Let $k1\_diraf : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_analoaf : \iota \Rightarrow \iota$ be given. Let $u1\_analmetr : \iota \Rightarrow \iota$ be given. Let $k1\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $l1\_analmetr : \iota \Rightarrow o$ be given. Let $v1\_analmetr : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ (k2\_zfmisc\_1\ X0\ X0))))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ (k2\_zfmisc\_1\ X0\ X0)))))\Rightarrow(\forall X3.\forall X4.\forall X5.(g1\_analmetr\ X0\ X1\ X2 = g1\_analmetr\ X3\ X4\ X5)\Rightarrow((X0 = X3)\wedge((X1 = X4)\wedge(X2 = X5)))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow(m1\_subset\_1\ (u1\_analoaf\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_analmetr\ X0)\Rightarrow(m1\_subset\_1\ (u1\_analmetr\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_analmetr\ X0)\Rightarrow(l1\_analoaf\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v5\_rlvect\_1\ X0)\wedge((v6\_rlvect\_1\ X0)\wedge((v7\_rlvect\_1\ X0)\wedge((v8\_rlvect\_1\ X0)\wedge(l1\_rlvect\_1\ X0)))))))))\wedge((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))))\Rightarrow((v1\_analmetr\ (k2\_analmetr\ X0\ X1\ X2))\wedge(l1\_analmetr\ (k2\_analmetr\ X0\ X1\ X2))) \tag{5}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v5\_rlvect\_1\ X0)\wedge((v6\_rlvect\_1\ X0)\wedge((v7\_rlvect\_1\ X0)\wedge((v8\_rlvect\_1\ X0)\wedge(l1\_rlvect\_1\ X0)))))))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(k2\_analmetr\ X0\ X1\ X2 = g1\_analmetr\ (u1\_struct\_0\ X0)\ (k1\_diraf\ (u1\_struct\_0\ X0)\ (k1\_analoaf\ X0))\ (k1\_analmetr\ X0\ X1\ X2)))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_analmetr\ X0)\Rightarrow((v1\_analmetr\ X0)\Rightarrow(X0 = g1\_analmetr\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0)\ (u1\_analmetr\ X0))) \tag{7}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v5\_rlvect\_1\ X0)\wedge((v6\_rlvect\_1\ X0)\wedge((v7\_rlvect\_1\ X0)\wedge((v8\_rlvect\_1\ X0)\wedge(l1\_rlvect\_1\ X0)))))))))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow((u1\_struct\_0\ (k2\_analmetr\ X0\ X1\ X2) = u1\_struct\_0\ X0)\wedge((u1\_analoaf\ (k2\_analmetr\ X0\ X1\ X2) = k1\_diraf\ (u1\_struct\_0\ X0)\ (k1\_analoaf\ X0))\wedge(u1\_analmetr\ (k2\_analmetr\ X0\ X1\ X2) = k1\_analmetr\ X0\ X1\ X2)))))$$