

# t44\_analmetr (TMJVM- pUV2p7vG7LcVFmtu4PDcQehiaEBqUC)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  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  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r6\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_analmetr : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r7\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r4\_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_analmetr X0)) \Rightarrow (\forall X1. \\
 & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\
 & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((r7\_analmetr \\
 & X0 X1 X2) \Leftrightarrow (\exists X3.(m1\_subset\_1 X3 (u1\_struct\_0 X0)) \wedge (\exists X4. \\
 & (m1\_subset\_1 X4 (u1\_struct\_0 X0)) \wedge ((X3 \neq X4) \wedge ((X1 = k4\_analmetr \\
 & X0 X3 X4) \wedge (r6\_analmetr X0 X3 X4 X2))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_analmetr X0)) \Rightarrow (\forall X1. \\
 & (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 \\
 & (u1\_struct\_0 X0)) \Rightarrow (\forall X3.(m1\_subset\_1 X3 (k1\_zfmisc\_1 ( \\
 & u1\_struct\_0 X0))) \Rightarrow ((r6\_analmetr X0 X1 X2 X3) \Leftrightarrow (\exists X4.(m1\_subset\_1 \\
 & X4 (u1\_struct\_0 X0)) \wedge (\exists X5.(m1\_subset\_1 X5 (u1\_struct\_0 \\
 & X0)) \wedge ((X4 \neq X5) \wedge ((X3 = k4\_analmetr X0 X4 X5) \wedge (r4\_analmetr X0 X1 X2 \\
 & X4 X5))))))))))
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_analmetr X0)) \Rightarrow (\forall X1. \\
 & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v4\_analmetr \\
 & X1 X0) \Leftrightarrow (\exists X2.(m1\_subset\_1 X2 (u1\_struct\_0 X0)) \wedge (\exists X3. \\
 & (m1\_subset\_1 X3 (u1\_struct\_0 X0)) \wedge ((X2 \neq X3) \wedge (X1 = k4\_analmetr \\
 & X0 X2 X3))))))
 \end{aligned} \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge (l1\_analmetr X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 \\ & (u1\_struct\_0 X0)) \Rightarrow (\forall X3.(m1\_subset\_1 X3 (k1\_zfmisc\_1 ( \\ & u1\_struct\_0 X0))) \Rightarrow (\forall X4.(m1\_subset\_1 X4 (k1\_zfmisc\_1 ( \\ & u1\_struct\_0 X0))) \Rightarrow (((r6\_analmetr X0 X1 X2 X3) \Rightarrow (v4\_analmetr X3 \\ & X0)) \wedge ((r7\_analmetr X0 X3 X4) \Rightarrow ((v4\_analmetr X3 X0) \wedge (v4\_analmetr \\ & X4 X0)))))))))) \end{aligned}$$