

## t7\_analoaf

(TMJ5cQFQANjWtjthw8mHRXxntQ8Ny2isdN7)

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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  $r1\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 \\
 & X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge ((v5\_rlvect\_1 X0) \wedge \\
 & ((v6\_rlvect\_1 X0) \wedge ((v7\_rlvect\_1 X0) \wedge ((v8\_rlvect\_1 X0) \wedge (l1\_rlvect\_1 \\
 & X0)))))))))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow \\
 & (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 \\
 & X3 (u1\_struct\_0 X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (u1\_struct\_0 \\
 & X0)) \Rightarrow ((r1\_analoaf X0 X1 X2 X3 X4) \Leftrightarrow (\neg (X1 \neq X2) \wedge ((X3 \neq X4) \wedge (\forall X5. \\
 & (m1\_subset\_1 X5 k1\_numbers) \Rightarrow (\forall X6. (m1\_subset\_1 X6 k1\_numbers) \Rightarrow \\
 & (\neg (\neg r1\_xxreal\_0 X5 k6\_numbers) \wedge ((\neg r1\_xxreal\_0 X6 k6\_numbers) \wedge \\
 & (k1\_rlvect\_1 X0 (k5\_algstr\_0 X0 X2 X1) X5 = k1\_rlvect\_1 X0 (k5\_algstr\_0 \\
 & X0 X4 X3) X6))))))))))))) \tag{1}
 \end{aligned}$$

### Theorem 1

$$\begin{aligned}
 & \forall X0. ((\neg v2\_struct\_0 X0) \wedge ((v13\_algstr\_0 X0) \wedge ((v2\_rlvect\_1 \\
 & X0) \wedge ((v3\_rlvect\_1 X0) \wedge ((v4\_rlvect\_1 X0) \wedge ((v5\_rlvect\_1 X0) \wedge \\
 & ((v6\_rlvect\_1 X0) \wedge ((v7\_rlvect\_1 X0) \wedge ((v8\_rlvect\_1 X0) \wedge (l1\_rlvect\_1 \\
 & X0)))))))))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow \\
 & (\forall X2. (m1\_subset\_1 X2 (u1\_struct\_0 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 \\
 & X3 (u1\_struct\_0 X0)) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (u1\_struct\_0 \\
 & X0)) \Rightarrow (\neg (r1\_analoaf X0 X1 X2 X3 X4) \wedge ((X1 \neq X2) \wedge ((X3 \neq X4) \wedge (\forall X5. \\
 & (m1\_subset\_1 X5 k1\_numbers) \Rightarrow (\forall X6. (m1\_subset\_1 X6 k1\_numbers) \Rightarrow \\
 & (\neg (k1\_rlvect\_1 X0 (k5\_algstr\_0 X0 X2 X1) X5 = k1\_rlvect\_1 X0 (k5\_algstr\_0 \\
 & X0 X4 X3) X6) \wedge ((\neg r1\_xxreal\_0 X5 k6\_numbers) \wedge (\neg r1\_xxreal\_0 X6 k6\_numbers)))))))))))))
 \end{aligned}$$