

t66\_aff\_4

(TMH33t21Bc8NT1krKbsk65XaSJrJZAGkaeh)

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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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_aff\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_aff\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_aff\_4 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow \\ ((v1\_aff\_4 X1 X0) \Rightarrow (r1\_aff\_4 X0 X1 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 \\ X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v1\_aff\_4 X2 X0) \Rightarrow (\forall X3. \\ (m1\_subset\_1 X3 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((X3 = k3\_aff\_4 \\ X0 X1 X2) \Leftrightarrow ((X1 \in X3) \wedge ((r1\_aff\_4 X0 X2 X3) \wedge (v1\_aff\_4 X3 X0)))))))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((\neg v7\_struct\_0 X0) \wedge ((v1\_diraf X0) \wedge (l1\_analoaf X0))) \Rightarrow \\ (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 \\ X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v1\_aff\_4 X2 X0) \Rightarrow ((X1 \in X2) \Leftrightarrow \\ (k3\_aff\_4 X0 X1 X2 = X2)))))) \end{aligned}$$