

t35\_scmfsa\_2 (TMV-  
GyFg6V1N4Zy5VqPBcYymU4CPZ9ZBavA5)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmfsa\_2 : \iota$  be given. Let  $k2\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_6 : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k11\_scmfsa\_2 : \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_8 : \iota$  be given. Let  $k1\_ami\_3 : \iota$  be given. Let  $k7\_ami\_3 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_compos\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $l1\_compos\_1 : \iota \Rightarrow o$  be given. Let  $v2\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v3\_compos\_0 : \iota \Rightarrow o$  be given. Let  $v5\_compos\_0 : \iota \Rightarrow o$  be given. Let  $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_3 : \iota$  be given. Let  $np\_2 : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_scmfsa\_2)) \Rightarrow ((r1\_xxreal\_0 \\ (k2\_compos\_0 (u1\_compos\_1 k1\_scmfsa\_2) X0) np\_8) \Rightarrow (m1\_subset\_1 \\ X0 (u1\_compos\_1 k1\_ami\_3))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_ami\_3)) \Rightarrow (\neg(k2\_compos\_0 \\ (u1\_compos\_1 k1\_ami\_3) X0 = np\_6) \wedge (\forall X1.(m1\_subset\_1 X1 \\ k5\_numbers) \Rightarrow (X0 \neq k7\_ami\_3 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$r1\_xxreal\_0 np\_6 np\_8 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((\neg v1\_xboole\_0 X0) \wedge (v1\_compos\_0 X0)) \wedge \\ (m1\_subset\_1 X1 X0)) \Rightarrow (k2\_compos\_0 X0 X1 = k4\_xtuple\_0 X1) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1\_compos\_1 X0) \Rightarrow ((v1\_compos\_0 (u1\_compos\_1 X0)) \wedge \\ ((v2\_compos\_0 (u1\_compos\_1 X0)) \wedge ((v3\_compos\_0 (u1\_compos\_1 \\ X0)) \wedge (v5\_compos\_0 (u1\_compos\_1 X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1 X1 X0)\Rightarrow((l1\_memstr\_0 X1 X0)\wedge (l1\_compos\_1 X1)) \quad (6)$$

Assume the following.

$$(v1\_extpro\_1 k1\_scmfsa\_2 np\_3)\wedge(l1\_extpro\_1 k1\_scmfsa\_2 np\_3) \quad (7)$$

Assume the following.

$$(v1\_extpro\_1 k1\_ami\_3 np\_2)\wedge(l1\_extpro\_1 k1\_ami\_3 np\_2) \quad (8)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k5\_numbers)\Rightarrow(k11\_scmfsa\_2 X0 = k7\_ami\_3 X0) \quad (9)$$

Assume the following.

$$\forall X0.(v5\_compos\_0 X0)\Rightarrow(\neg v1\_xboole\_0 X0) \quad (10)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 (u1\_compos\_1 k1\_scmfsa\_2))\Rightarrow(\neg(k2\_compos\_0 (u1\_compos\_1 k1\_scmfsa\_2) X0 = np\_6)\wedge(\forall X1.(m1\_subset\_1 X1 k5\_numbers)\Rightarrow(X0\neq k11\_scmfsa\_2 X1)))$$