

# t37\_comput\_1 (TMZXGBUedP- pRhBVU8Xm4H3txb5QWqrtpyc8)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k19\_margrel1 : \iota \Rightarrow \iota$  be given. Let  $k5\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_2 : \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v2\_margrel1 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v4\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v2\_comput\_1 : \iota \Rightarrow o$  be given. Let  $v3\_margrel1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k5\_numbers) \Rightarrow ((k1\_relset\_1 (k3\_finseq\_2 k5\_numbers) (k5\_comput\_1 \\ & X0 X1) = k4\_finseq\_2 X0 k5\_numbers) \wedge ((r1\_xxreal\_0 np\_1 X1) \wedge ( \\ & r1\_xxreal\_0 X1 X0)) \Rightarrow (k10\_xtuple\_0 (k5\_comput\_1 X0 X1) = k5\_numbers))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.((v1\_funct\_1 X1) \wedge ( \\ & (v2\_margrel1 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 ( \\ & k3\_finseq\_2 X0) X0)))) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k5\_numbers) \Rightarrow \\ & ((k1\_relset\_1 (k3\_finseq\_2 X0) X1 = k4\_finseq\_2 X2 X0) \Rightarrow (k19\_margrel1 \\ & X1 = X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 (k3\_finseq\_2 k5\_numbers)) \wedge \\ & ((v1\_funct\_1 X0) \wedge ((v4\_valued\_0 X0) \wedge (v2\_comput\_1 X0)))) \Rightarrow (( \\ & v1\_funct\_1 X0) \wedge ((v3\_margrel1 X0 k5\_numbers) \wedge (m1\_subset\_1 X0 \\ & (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k3\_finseq\_2 k5\_numbers) k5\_numbers)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1\_subset\_1 X0 k5\_numbers)\wedge(m1\_subset\_1 \\ X1 k5\_numbers))\Rightarrow((\neg v1\_xboole\_0 (k5\_comput\_1 X0 X1))\wedge((v1\_relat\_1 \\ (k5\_comput\_1 X0 X1))\wedge((v4\_relat\_1 (k5\_comput\_1 X0 X1) (k3\_finseq\_2 \\ k5\_numbers))\wedge((v1\_funct\_1 (k5\_comput\_1 X0 X1))\wedge((v4\_valued\_0 \\ (k5\_comput\_1 X0 X1))\wedge((v2\_margrel1 (k5\_comput\_1 X0 X1))\wedge(v2\_comput\_1 \\ (k5\_comput\_1 X0 X1)))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1\_subset\_1 X0 k5\_numbers)\wedge(m1\_subset\_1 \\ X1 k5\_numbers))\Rightarrow((v1\_relat\_1 (k5\_comput\_1 X0 X1))\wedge((v4\_relat\_1 \\ (k5\_comput\_1 X0 X1) (k3\_finseq\_2 k5\_numbers))\wedge((v1\_funct\_1 ( \\ k5\_comput\_1 X0 X1))\wedge((v4\_valued\_0 (k5\_comput\_1 X0 X1))\wedge(v2\_margrel1 \\ (k5\_comput\_1 X0 X1)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(v1\_xboole\_0 X0)\Rightarrow(\forall X2.(m1\_subset\_1 \\ X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X0)))\Rightarrow(v1\_xboole\_0 X2)) \end{aligned} \quad (6)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1 \\ X1 k5\_numbers)\Rightarrow(k19\_margrel1 (k5\_comput\_1 X0 X1) = X0)) \end{aligned}$$