

# t31\_comput\_1

(TMdhruMSN3cVYvRakVJBUaqbpKVmGRvZomp)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k3\_comput\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_comput\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_finseq\_2 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v4\_valued\_0 : \iota \Rightarrow o$  be given. Let  $v2\_margrel1 : \iota \Rightarrow o$  be given. Let  $m2\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 (k3\_finseq\_2 k5\_numbers)) \wedge ((v1\_funct\_1 X0) \wedge ((v4\_valued\_0 X0) \wedge (v2\_margrel1 X0))))) \Rightarrow (m2\_rfunct\_3 X0 (k3\_finseq\_2 k5\_numbers) k5\_numbers (k2\_comput\_1 k5\_numbers)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X2) \wedge (m1\_rfunct\_3 X2 X0 X1)) \Rightarrow (\forall X3. (m2\_rfunct\_3 X3 X0 X1 X2) \Leftrightarrow (m1\_subset\_1 X3 X2)) \quad (3)$$

Assume the following.

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

Assume the following.

$$\forall X0. (\neg v1\_xboole\_0 (k2\_comput\_1 X0)) \wedge (m1\_rfunct\_3 (k2\_comput\_1 X0) (k3\_finseq\_2 X0) X0) \quad (5)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k5\_numbers) \Rightarrow (k3\_comput\_1 X0 X1 \in k2\_comput\_1 k5\_numbers))$$