

# t55\_finseq\_5 (TMHqUFsZfJCKbH- MZEhSxLhM1Tg5KuvWMG1P)

October 27, 2020

Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_finseq\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_rfinseq : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow \\ & (\forall X2. (m2\_finseq\_1 X2 X0) \Rightarrow (\neg (X1 \in k10\_xtuple\_0 X2) \wedge (\forall X3. \\ & (m1\_subset\_1 X3 k5\_numbers) \Rightarrow (\neg (k2\_nat\_1 X3 np\_1 = k4\_finseq\_4 \\ & X2 X1) \wedge (k2\_finseq\_5 X0 X2 X1 = k2\_rfinseq X0 X3 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow ( \\ & \forall X2. (m2\_finseq\_1 X2 X1) \Rightarrow (r1\_tarski (k10\_xtuple\_0 (k2\_rfinseq \\ & X1 X0 X2)) (k10\_xtuple\_0 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (4)$$

## Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow \\ & (\forall X2. (m2\_finseq\_1 X2 X0) \Rightarrow ((X1 \in k10\_xtuple\_0 X2) \Rightarrow (r1\_tarski \\ & (k10\_xtuple\_0 (k2\_finseq\_5 X0 X2 X1)) (k10\_xtuple\_0 X2)))))) \end{aligned}$$