

l100\_finseq\_1 (TMXmsLJzYqaMY-  
CiaNm9VJGZPTkmfYYuAU1H)

October 27, 2020

Let  $np_{-7} : \iota$  be given. Let  $k2\_finseq_1 : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np_{-1} : \iota$  be given. Let  $v2\_xxreal_0 : \iota \Rightarrow o$  be given. Let  $m2\_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $m1\_subset_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((X0 \in k2\_finseq_1 X1) \Leftrightarrow ((r1\_xxreal_0 np_{-1} X0) \wedge (r1\_xxreal_0 X0 X1)))) \quad (1)$$

Assume the following.

$$((v2\_xxreal_0 np_{-7}) \wedge (m2\_subset_1 np_{-7} k1\_numbers k5\_numbers)) \wedge ((m1\_subset_1 np_{-7} k5\_numbers) \wedge (m1\_subset_1 np_{-7} k1\_numbers)) \quad (2)$$

Assume the following.

$$r1\_xxreal_0 np_{-7} np_{-7} \quad (3)$$

Assume the following.

$$r1\_xxreal_0 np_{-1} np_{-7} \quad (4)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (6)$$

**Theorem 1**  $np_{-7} \in k2\_finseq_1 np_{-7}$ .