

# l7\_gobrd10

## (TMQKtVJa2gPWNTcjqaEWopycE9aQs1kouLi)

October 27, 2020

Let  $m1\_subset.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal.0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np_{-1} : \iota$  be given. Let  $k1\_funct.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_finseq.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_finseq.1 : \iota \Rightarrow \iota$  be given. Let  $k2\_finseq.2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xboole.0 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.(X2 \in k2\_finseq.1 X0) \Rightarrow (k1\_funct.1 (k2\_finseq.2 X0 X1) X2 = X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((X0 \in k2\_finseq.1 X1) \Leftrightarrow ((r1\_xxreal.0 np_{-1} X0) \wedge (r1\_xxreal.0 X0 X1)))) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole.0 X0) \wedge ((v7\_ordinal1 X1) \wedge (m1\_subset.1 X2 X0))) \Rightarrow (k5\_finseq.2 X0 X1 X2 = k2\_finseq.2 X1 X2) \quad (4)$$

Assume the following.

$$(\neg v1\_xboole.0 k4\_ordinal1) \wedge (v3\_ordinal1 k4\_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset.1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (6)$$

### Theorem 1

$$\forall X0.(m1\_subset.1 X0 k5\_numbers) \Rightarrow (\forall X1.(m1\_subset.1 X1 k5\_numbers) \Rightarrow (\forall X2.(m1\_subset.1 X2 k5\_numbers) \Rightarrow (((r1\_xxreal.0 np_{-1} X2) \wedge (r1\_xxreal.0 X2 X0)) \Rightarrow (k1\_funct.1 (k5\_finseq.2 k5\_numbers X0 X1) X2 = X1))))$$