t56_stirl2_1 (TMWA2ofiMEysXMSF8QmSD2b17vsY7PEZJZk)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\neg(\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\exists X2.\ (m1\_subset\_1\ X2\ k5\_numbers) \wedge ((r1\_xxreal\_0\ X1\ X2) \wedge (X2 \in X0)))) \wedge (v1\_finset\_1\ X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0) \wedge (v1\_xxreal\_0\ X1)) \Rightarrow ((r1\_xxreal\_0\ X0\ X1) \vee (r1\_xxreal\_0\ X1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_xxreal\_0\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_numbers)) \Rightarrow (\neg(v1\_finset\_1\ X0) \wedge (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\exists X2.(v7\_ordinal1\ X2) \wedge ((X2 \in X0) \wedge (\neg r1\_xxreal\_0\ X2\ X1)))))$$