l5_moebius1 (TM-LXX7EhygAteaqcVrV7H2RmSaKtx2M9Z1o)

October 27, 2020

Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_int\_2 : \iota \Rightarrow o$ be given. Let $r1\_nat\_d : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_int\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0) \wedge (v7\_ordinal1\ X1)) \Rightarrow (r1\_nat\_d\ X0\ X0) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((r1\_int\_2\ X0\ X1) \Leftrightarrow (\forall X2.((v7\_ordinal1\ X2) \wedge (v1\_int\_2\ X2)) \Rightarrow (\neg(r1\_nat\_d\ X2\ X0) \wedge (r1\_nat\_d\ X2\ X1))))) \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow ((r1\_int\_2\ X0\ X1) \Leftrightarrow (\forall X2.(v7\_ordinal1\ X2) \Rightarrow (((r1\_nat\_d\ X2\ X0) \wedge (r1\_nat\_d\ X2\ X1)) \Rightarrow (X2 = np\_\_1))))) \tag{3}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\neg(X0 \neq np\_\_1) \wedge (\forall X1.((v7\_ordinal1\ X1) \wedge (v1\_int\_2\ X1)) \Rightarrow (\neg r1\_nat\_d\ X1\ X0)))$$