

t17\_pepin  
(TMSc1tWRBsqhXBHdXrpC4hCVSZ2Ykkg7ecY)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $v1\_int\_2 : \iota \Rightarrow o$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_int\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$r1\_xxreal\_0\ np\_2\ np\_2 \tag{1}$$

Assume the following.

$$np\_2 \in k4\_ordinal1 \tag{2}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v1\_int\_2\ X0) \Leftrightarrow ((\neg r1\_xxreal\_0\ X0\ np\_1) \wedge (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\neg(r1\_int\_1\ X1\ X0) \wedge ((X1 \neq np\_1) \wedge (X1 \neq X0)))))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow ((v1\_abian\ X0) \Leftrightarrow (r1\_int\_1\ np\_2\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Leftrightarrow (X0 \in k4\_ordinal1) \tag{5}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_int\_1\ X0) \tag{6}$$

**Theorem 1**

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\neg(\neg(r1\_xxreal\_0\ X0\ np\_2) \wedge ((v1\_int\_2\ X0) \wedge (v1\_abian\ X0))))$$