

t15\_pepin  
(TMPcQYgJ5szKtgfJ3Zjna4meYB78dzF2tCp)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_int\_2 : \iota \Rightarrow o$  be given. Let  $k4\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k3\_square\_1 : \iota \Rightarrow \iota$  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  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0\ np\_1) \wedge (m2\_subset\_1\ np\_1\ k1\_numbers\ k5\_numbers)) \wedge \\ & ((m1\_subset\_1\ np\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_1\ k1\_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$\neg v1\_xboole\_0\ np\_1 \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. ((\neg v1\_xboole\_0\ X0) \wedge (v7\_ordinal1\ X0)) \Rightarrow ((\neg v7\_ordinal1\ (k4\_xcmplx\_0\ X0)) \wedge (v1\_xcmplx\_0\ (k4\_xcmplx\_0\ X0))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((v7\_ordinal1\ X0) \wedge (v7\_ordinal1\ X1)) \Rightarrow (m1\_subset\_1\ (k4\_nat\_d\ X0\ X1)\ k5\_numbers) \quad (5)$$

Assume the following.

$$\forall X0. (m1\_subset\_1\ X0\ k4\_ordinal1) \Rightarrow (v7\_ordinal1\ X0) \quad (6)$$

**Theorem 1**

$$\forall X0. (v7\_ordinal1\ X0) \Rightarrow (\forall X1. (v7\_ordinal1\ X1) \Rightarrow ((v1\_int\_2\ X0) \wedge (k4\_nat\_d\ X1\ X0 = k4\_xcmplx\_0\ np\_1)) \Rightarrow (k4\_nat\_d\ (k3\_square\_1\ X1)\ X0 = np\_1)))$$