t16_pepin (TML4qZ4XrUadrAVvMZKzDjSzUAsWNRRDMTx)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_abian : \iota \Rightarrow o$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ 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 $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$((v2\_xxreal\_0\ np\_\_1) \wedge (m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_1\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0) \wedge (m1\_subset\_1\ X1\ k5\_numbers)) \Rightarrow (k1\_nat\_1\ X0\ X1 = k2\_xcmplx\_0\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_int\_1\ X0) \wedge (v1\_abian\ X0)) \Rightarrow (\neg v1\_abian\ (k2\_xcmplx\_0\ X0\ np\_\_1)) \tag{3}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (v1\_int\_1\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\neg(v1\_abian\ X0) \wedge (v1\_abian\ (k1\_nat\_1\ X0\ np\_\_1)))$$