t22_nat_2 (TMa5JRxTg5mD1ypLgLC2Q5riy4keqiL6vAu)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_abian : \iota \Rightarrow o$ be given. Let $k4\_nat\_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_ordinal1 : \iota \Rightarrow o$ be given. Let $v2\_ordinal1 : \iota \Rightarrow o$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((v1\_abian\ X0) \Leftrightarrow (k4\_nat\_d\ X0\ np\_\_2 = k6\_numbers)) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((k4\_nat\_d\ X0\ np\_\_2 = k6\_numbers) \vee (k4\_nat\_d\ X0\ np\_\_2 = np\_\_1)) \tag{2}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\exists X0.(v1\_xxreal\_0\ X0) \wedge ((v1\_ordinal1\ X0) \wedge ((v2\_ordinal1\ X0) \wedge ((v3\_ordinal1\ X0) \wedge ((v7\_ordinal1\ X0) \wedge ((v1\_xcmplx\_0\ X0) \wedge ((v1\_xreal\_0\ X0) \wedge ((v1\_int\_1\ X0) \wedge (\neg v1\_abian\ X0)))))))) \tag{4}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow ((\neg v1\_abian\ X0) \Leftrightarrow (k4\_nat\_d\ X0\ np\_\_2 = np\_\_1))$$