

# t6\_power (TMSfVVzzKcrGLyjqaivdNyAtWGLY- WYdDoTZ)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k2\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  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  $np\_0 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k1\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (1)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k2\_newton np\_1 X0 = np\_1) \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$v1\_xboole\_0 np\_0 \quad (4)$$

Assume the following.

$$\neg r1\_xxreal\_0 np\_1 np\_0 \quad (5)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (6)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(m1\_subset\_1\ X1\ k1\_numbers))\Rightarrow (k2\_power\ X0\ X1 = k1\_power\ X0\ X1) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(v7\_ordinal1\ X1))\Rightarrow(k2\_newton\ X0\ X1 = k1\_newton\ X0\ X1) \quad (9)$$

Assume the following.

$$r1\_xxreal\_0\ k6\_numbers\ np\_1 \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow((r1\_xxreal\_0 \\ np\_1\ X0)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(((\neg r1\_xxreal\_0\ X1\ k6\_numbers)\Rightarrow \\ ((X2 = k2\_prepower\ X0\ X1)\Leftrightarrow((k1\_newton\ X2\ X0 = X1)\wedge(\neg r1\_xxreal\_0 \\ X2\ k6\_numbers))))\wedge((X1 = k6\_numbers)\Rightarrow((X2 = k2\_prepower\ X0\ X1)\Leftrightarrow \\ (X2 = k6\_numbers))))))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow((( \\ (r1\_xxreal\_0\ k6\_numbers\ X1)\wedge(r1\_xxreal\_0\ np\_1\ X0))\Rightarrow(k1\_power \\ X0\ X1 = k2\_prepower\ X0\ X1))\wedge(\neg(\neg r1\_xxreal\_0\ k6\_numbers\ X1)\wedge(\neg \\ v1\_abian\ X0)\wedge(k1\_power\ X0\ X1\neq k4\_xcmplx\_0\ (k2\_prepower\ X0\ (k4\_xcmplx\_0 \\ X1)))))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \quad (13)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \quad (14)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow((r1\_xxreal\_0\ np\_1\ X0)\Rightarrow (k2\_power\ X0\ np\_1 = np\_1))$$