

t62_power (TM- SUGWL9nuexC3gLPRTrcxHNmrroMTbdauD)

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Let $k4_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_16 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$k4_power\ np_2\ np_2 = np_4 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ (v1_xreal_0 X2) \Rightarrow ((\neg r1_xxreal_0 X0\ k6_numbers) \Rightarrow (k3_power\ X0\ (\\ k2_xcmplx_0\ X1\ X2) = k3_xcmplx_0\ (k3_power\ X0\ X1)\ (k3_power\ X0\ X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0\ np_4) \wedge (m2_subset_1\ np_4\ k1_numbers\ k5_numbers)) \wedge \\ ((m1_subset_1\ np_4\ k5_numbers) \wedge (m1_subset_1\ np_4\ k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0\ np_2) \wedge (m2_subset_1\ np_2\ k1_numbers\ k5_numbers)) \wedge \\ ((m1_subset_1\ np_2\ k5_numbers) \wedge (m1_subset_1\ np_2\ k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$v1_xboole_0\ np_0 \quad (6)$$

Assume the following.

$$k3_xcmplx_0 \ np_4 \ np_4 = np_16 \quad (7)$$

Assume the following.

$$k2_xcmplx_0 \ np_2 \ np_2 = np_4 \quad (8)$$

Assume the following.

$$\neg r1_xreal_0 \ np_2 \ np_0 \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k1_numbers) \wedge (m1_subset_1 \ X1 \ k1_numbers)) \Rightarrow (k4_power \ X0 \ X1 = k3_power \ X0 \ X1) \quad (11)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (12)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ k1_numbers)) \Rightarrow (v3_membered \ X0) \quad (13)$$

Assume the following.

$$\forall X0. (v3_membered \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ X0) \Rightarrow (v1_xreal_0 \ X1)) \quad (14)$$

Theorem 1 $k4_power \ np_2 \ np_4 = np_16$.