

t41_partfun1 (TMVnFFTWT4yEbhness12mnbVq5xtw4m6wj2)

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Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k3_partfun1\ k1_xboole_0\ X0\ X1 = k1_xboole_0 \quad (1)$$

Assume the following.

$$\forall X0. \exists X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \wedge (v1_xboole_0\ X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (X0 = k1_xboole_0) \quad (3)$$

Assume the following.

$$v1_xboole_0\ k1_xboole_0 \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0\ X0) \wedge (v1_xboole_0\ X1)) \Rightarrow \\ & (\forall X2. (m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))) \Rightarrow \\ & (\neg v1_partfun1\ X2\ X0) \end{aligned} \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. (v1_partfun1\ (k3_partfun1\ k1_xboole_0\ X0\ X1)\ X0) \Rightarrow (X0 = k1_xboole_0)$$