

t43_setwiseo (TM-
RjJ13RCWdYLMpx7xoWUUbs5EQtKZLbb7q)

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Let $k4_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k9_setwiseo : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r3_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_setwiseo : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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. Assume the following.

$$\forall X0. r3_binop_1 (k5_finsub_1 X0) (k1_setwiseo X0) (k9_setwiseo X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (v1_funct_1 (k9_setwiseo X0)) \wedge ((v1_funct_2 (k9_setwiseo \\ X0) (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k5_finsub_1 \\ X0)) \wedge (m1_subset_1 (k9_setwiseo X0) (k1_zfmisc_1 (k2_zfmisc_1 \\ (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k5_finsub_1 \\ X0)))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. (v1_xboole_0 (k1_setwiseo X0)) \wedge (m1_subset_1 (k1_setwiseo X0) (k5_finsub_1 X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (k2_zfmisc_1 \\ X0 X0) X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ X0 X0) X0)))))) \Rightarrow ((\exists X2. (m1_subset_1 X2 X0) \wedge (r3_binop_1 X0 \\ X2 X1)) \Rightarrow (\forall X2. (m1_subset_1 X2 X0) \Rightarrow ((X2 = k4_binop_1 X0 X1) \Leftrightarrow \\ (r3_binop_1 X0 X2 X1)))) \quad (4) \end{aligned}$$

Assume the following.

$$\forall X0. k1_setwiseo X0 = k1_xboole_0 \quad (5)$$

Theorem 1 $\forall X0. k4_binop_1 (k5_finsub_1 X0) (k9_setwiseo X0) = k1_xboole_0.$