

t4_pre_circ
(TMay5msWVkiQWwUCEUTHqBtj2pxAR3XPHcf)

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Let $k2_funct_5 : \iota \Rightarrow \iota$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_funct_5 : \iota \Rightarrow \iota$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_pboole : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (k2_zfmisc_1 X0 X1 = k1_xboole_0) \Leftrightarrow ((X0 = k1_xboole_0) \vee (X1 = k1_xboole_0)) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (k2_funct_5 (k7_funcop_1 X0 \\ (k7_funcop_1 X1 X2)) = k7_funcop_1 (k2_zfmisc_1 X0 X1) X2) \wedge (k4_funct_5 \\ (k7_funcop_1 X0 (k7_funcop_1 X1 X2)) = k7_funcop_1 (k2_zfmisc_1 \\ X1 X0) X2) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop_1 X0 X1 = k2_funcop_1 X0 X1 \quad (3)$$

Assume the following.

$$\forall X0. k1_pboole X0 = k7_funcop_1 X0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_funcop_1 X0 X1 = k2_zfmisc_1 X0 (k1_tarski X1) \quad (5)$$

Theorem 1 $\forall X0. k2_funct_5 (k7_funcop_1 X0 k1_xboole_0) = k1_xboole_0.$