

t22_setfam_1
(TMQAw3KSySprwELXtR2rh5GNYjpybduv1Yf)

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Let $r1_setfam_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_setfam_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k6_subset_1 X0 X1) (k1_zfmisc_1 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k4_setfam_1 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow (\exists X4. \exists X5. (X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k6_subset_1 X4 X5)))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_setfam_1 X0 X1) \Leftrightarrow (\forall X2. \neg (X2 \in X0) \wedge (\forall X3. \neg (X3 \in X1) \wedge (r1_tarski X2 X3))) \quad (4)$$

Theorem 1 $\forall X0. r1_setfam_1 (k4_setfam_1 X0 X0) X0.$