

t2_flang_3 (TM- MdHry6Gdp3NMTtFRbCsyREsCoteZL4oxw)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k1_flang_2 X0 X1 X2 X2 = k7_flang_1 X0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0 : \iota \Rightarrow o. \forall X1. \forall X2. (X2 \in ReplSep (toset (\lambda X3 : \iota. m1_subset_1 X3 X1))) (\lambda X3 : \iota. X0 X3) (\lambda X3 : \iota. X3)) \Rightarrow (X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \wedge ((v7_ordinal1 X2) \wedge (v7_ordinal1 X3))) \Rightarrow (m1_subset_1 (k1_flang_2 X0 X1 X2 X3) (k1_zfmisc_1 (k8_afinsq_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k1_flang_3 X0 X1 X2 = k3_tarski (ReplSep (toset (\lambda X3 : \iota. m1_subset_1 X3 (k1_zfmisc_1 (k8_afinsq_1 X0)))) (\lambda X3 : \iota. \exists X4. (v7_ordinal1 X4) \wedge ((r1_xxreal_0 X2 X4) \wedge (X3 = k7_flang_1 X0 X1 X4))) (\lambda X3 : \iota. X3)))) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k8_afinsq_1 X0))) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow ((X1 \in k1_flang_3 \\ & X0 X2 X3) \Leftrightarrow (\exists X4. (v7_ordinal1 X4) \wedge ((r1_xxreal_0 X3 X4) \wedge \\ & X1 \in k7_flang_1 X0 X2 X4)))) \end{aligned}$$