

t1_yellow17 (TMTByzaUAANRaF- SqHoCpc3eL5pQ2ZUwwAAX)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_card_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. \forall X2. (r1_xboole_0 X1 X2) \Rightarrow (r1_xboole_0 (k8_relat_1 X0 X1) (k8_relat_1 X0 X2))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (\neg X0 \in X1) \Rightarrow (r1_xboole_0 (k1_tarski X0) X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_relat_1 (k12_card_3 X0 X1)) \wedge (v1_funct_1 (k12_card_3 X0 X1))) \quad (3)$$

Theorem 1

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1. \forall X2. \forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k1_funct_1 X0 X1))) \Rightarrow ((\neg r1_xboole_0 (k8_relat_1 (k12_card_3 X0 X1) (k1_tarski X2)) (k8_relat_1 (k12_card_3 X0 X1) X3)) \Rightarrow (X2 \in X3)))$$