

t177_relat_1 (TMU-
Vmm2X8LihBUZsCeTvxD7uu6tuxrsQwzd)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow (k5_relat_1 X2 (k6_subset_1 X0 X1) = k6_subset_1 (k5_relat_1 X2 X0) (k5_relat_1 X2 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (k9_xtuple_0 (k5_relat_1 X1 (k6_subset_1 (k9_xtuple_0 X1) X0)) = k6_subset_1 (k9_xtuple_0 X1) X0) \quad (2)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (k5_relat_1 X0 (k9_xtuple_0 X0) = X0) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (k9_xtuple_0 (k6_subset_1 X1 (k5_relat_1 X1 X0)) = k6_subset_1 (k9_xtuple_0 X1) X0)$$