

t10_arytm_1
(TMUqZ6sJxYDN2D1r4YzhQfxieGrrpmMLAkx)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_arytm_2 : \iota$ be given. Let $r1_arytm_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_arytm_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_arytm_3 : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 X1 k2_arytm_2) \Rightarrow (\neg(\neg r1_arytm_2 X0 X1) \wedge (k1_arytm_1 X0 X1 = k11_arytm_3))) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 X1 k2_arytm_2) \Rightarrow (((r1_arytm_2 X0 X1) \wedge (r1_arytm_2 X1 X0)) \Rightarrow (X0 = X1))) \quad (2)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 X1 k2_arytm_2) \Rightarrow (((r1_arytm_2 X0 X1) \wedge (k1_arytm_1 X1 X0 = k11_arytm_3)) \Rightarrow (X0 = X1)))$$