

t77_arytm_3
(TMLp5s6fti2CfHTdsxRpfdrijQA hjNBZR6Zj)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_arytm_3 : \iota$ be given. Let $r3_arytm_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_arytm_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 X0 k5_arytm_3) \wedge (m1_subset_1 X1 k5_arytm_3)) \Rightarrow (m1_subset_1 (k9_arytm_3 X0 X1) k5_arytm_3) \quad (1)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k5_arytm_3) \Rightarrow (\forall X1. (m1_subset_1 X1 k5_arytm_3) \Rightarrow ((r3_arytm_3 X0 X1) \Leftrightarrow (\exists X2. (m1_subset_1 X2 k5_arytm_3) \wedge (X1 = k9_arytm_3 X0 X2)))) \quad (2)$$

Theorem 1

$$\forall X0. (m1_subset_1 X0 k5_arytm_3) \Rightarrow (\forall X1. (m1_subset_1 X1 k5_arytm_3) \Rightarrow (r3_arytm_3 X0 (k9_arytm_3 X0 X1)))$$