

l14_arytm_2
(TMK557At6pGabHPawqEUbeUEkUDhvyaTC6g)

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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. Assume the following.

$$\forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow (\forall X1.(m1_subset_1 X1 k5_arytm_3) \Rightarrow ((\neg r3_arytm_3 X1 X0) \Leftrightarrow ((r3_arytm_3 X0 X1) \wedge (X0 \neq X1)))) \quad (1)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k5_arytm_3) \Rightarrow (\forall X1.(m1_subset_1 X1 k5_arytm_3) \Rightarrow ((\forall X2.(m1_subset_1 X2 k5_arytm_3) \Rightarrow ((\neg (\neg r3_arytm_3 X0 X2) \wedge (r3_arytm_3 X1 X2)) \wedge (\neg (\neg r3_arytm_3 X1 X2) \wedge (r3_arytm_3 X0 X2)))) \Rightarrow (X0 = X1)))$$