

t18_arytm_1 (TMScRQm- sckq3Nq29TuU8ys3HYK2iBhUnFZR)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_arytm_2 : \iota$ be given. Let $k2_arytm_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_arytm_3 : \iota$ be given. Let $k1_arytm_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_arytm_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (k1_arytm_1 X0 X0 = k11_arytm_3) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_arytm_2) \Rightarrow (((r1_arytm_2 X1 X0) \Rightarrow (k2_arytm_1 X0 X1 = k1_arytm_1 \\ X0 X1)) \wedge ((\neg r1_arytm_2 X1 X0) \Rightarrow (k2_arytm_1 X0 X1 = k4_tarski k11_arytm_3 \\ (k1_arytm_1 X1 X0))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k2_arytm_2) \wedge (m1_subset_1 \\ X1 k2_arytm_2)) \Rightarrow ((r1_arytm_2 X0 X1) \vee (r1_arytm_2 X1 X0)) \quad (3)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (k2_arytm_1 X0 X0 = k11_arytm_3)$$