

t6_arytm_1 (TMLbJDJPePC-
saoRW4quVb6xwXjPkZFXCVFf)

October 27, 2020

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

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_arytm_2) \Rightarrow (((r1_arytm_2 X0 X1) \wedge (X1 = k11_arytm_3)) \Rightarrow (X0 = \\ k11_arytm_3))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1 X0 k2_arytm_2) \wedge (m1_subset_1 \\ X1 k2_arytm_2)) \Rightarrow ((r1_arytm_2 X0 X1) \vee (r1_arytm_2 X1 X0)) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k2_arytm_2) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k2_arytm_2) \Rightarrow ((X0 = k11_arytm_3) \Rightarrow (r1_arytm_2 X0 X1))) \end{aligned}$$