t88_arytm_3 (TM-Rts7hmnxoFNg8dQTuPwfg6CUeP1ggWEnz)

October 27, 2020

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.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k5\_arytm\_3) \wedge (m1\_subset\_1\ X1\ k5\_arytm\_3)) \Rightarrow ((r3\_arytm\_3\ X0\ X1) \vee (r3\_arytm\_3\ X1\ X0)) \tag{1}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_arytm\_3) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_arytm\_3) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k5\_arytm\_3) \Rightarrow (\neg(\neg r3\_arytm\_3\ X1\ X0) \wedge ((\neg r3\_arytm\_3\ X2\ X0) \wedge (\forall X3.(m1\_subset\_1\ X3\ k5\_arytm\_3) \Rightarrow (\neg(r3\_arytm\_3\ X3\ X1) \wedge ((r3\_arytm\_3\ X3\ X2) \wedge (\neg r3\_arytm\_3\ X3\ X0)))))))))$$