

l1_modelc_3 (TM-
cxD7P9TbnPNXW6DX1zXWRTnsiemctEXD8)

October 27, 2020

Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k2_xboole_0 \\ (k2_xboole_0 X1 X2) X3) \Leftrightarrow (\neg(\neg X0 \in X1) \wedge (\neg X0 \in X2) \wedge (\neg X0 \in X3)) \end{aligned}$$