t1_graph_3 (TMYAxWYWfD-WQD1JPN5dYs7ggLv87bnz7aji)

October 27, 2020

Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v1\_abian : \iota \Rightarrow o$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(((v1\_int\_1\ X0) \wedge (v1\_abian\ X0)) \wedge ((v1\_int\_1\ X1) \wedge (v1\_abian\ X1))) \Rightarrow (v1\_abian\ (k6\_xcmplx\_0\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_int\_1\ X0) \wedge (\neg v1\_abian\ X0)) \wedge ((v1\_int\_1\ X1) \wedge (\neg v1\_abian\ X1))) \Rightarrow (v1\_abian\ (k6\_xcmplx\_0\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_int\_1\ X0) \wedge (v1\_abian\ X0)) \wedge ((v1\_int\_1\ X1) \wedge (\neg v1\_abian\ X1))) \Rightarrow (\neg v1\_abian\ (k6\_xcmplx\_0\ X1\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_int\_1\ X0) \wedge (v1\_abian\ X0)) \wedge ((v1\_int\_1\ X1) \wedge (\neg v1\_abian\ X1))) \Rightarrow (\neg v1\_abian\ (k6\_xcmplx\_0\ X0\ X1)) \tag{4}$$

Theorem 1

$$\forall X0.(v1\_int\_1\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (((v1\_abian\ X0) \Leftrightarrow (v1\_abian\ X1)) \Leftrightarrow (v1\_abian\ (k6\_xcmplx\_0\ X0\ X1))))$$