

t3_xboole_0
(TMYXQGLXy7AXo5iyPvLg5vidATUayFykZcU)

October 27, 2020

Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_xboole_0 \ X0 \ X1) \Leftrightarrow (k3_xboole_0 \ X0 \ X1 = k1_xboole_0) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k3_xboole_0 \ X0 \ X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \tag{3}$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \tag{4}$$

Theorem 1

$$\forall X0. \forall X1. (\neg(\neg r1_xboole_0 \ X0 \ X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1_xboole_0 \ X0 \ X1))$$