

t4.altcat_1

(TMWyBZHVt5oZMUpszsQ35ZBTLsNBjHQBreQ)

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Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge (v1_xboole_0 X1)) \Rightarrow (v1_xboole_0 (k1_funct_2 X0 X1)) \quad (2)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\neg v1_xboole_0 (k1_funct_2 X0 X1)) \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(\neg (k1_funct_2 X0 X1 \neq k1_xboole_0)) \wedge ((k1_funct_2 X1 X2 \neq k1_xboole_0) \wedge (k1_funct_2 X0 X2 = k1_xboole_0))$$