

t48_mcart_1
(TMNFidfGpc7yCxzzaCjkrnT8uWHuauqUz7G)

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Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r1_xboole_0 X0 X1) \vee (r1_xboole_0 X2 X3)) \Rightarrow (r1_xboole_0 (k2_zfmisc_1 X0 X2) (k2_zfmisc_1 X1 X3)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_zfmisc_1 X0 X1 X2 = k2_zfmisc_1 (k2_zfmisc_1 X0 X1) X2 \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. (\neg r1_xboole_0 (k3_zfmisc_1 X0 X1 X2) (k3_zfmisc_1 X3 X4 X5)) \Rightarrow ((\neg r1_xboole_0 X0 X3) \wedge ((\neg r1_xboole_0 X1 X4) \wedge (\neg r1_xboole_0 X2 X5)))$$