

t54_mcart_1

(TMWCmtZdXmN7YnQ4nRhUSPE8gXEmUKGFisP)

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Let $k4_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. (k4_zfmisc_1 X0 X1 X2 X3 = k4_zfmisc_1 X4 X5 \\ & X6 X7) \Rightarrow ((X0 = k1_xboole_0) \vee ((X1 = k1_xboole_0) \vee ((X2 = k1_xboole_0) \vee \\ & ((X3 = k1_xboole_0) \vee ((X0 = X4) \wedge ((X1 = X5) \wedge ((X2 = X6) \wedge (X3 = X7))))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (k4_zfmisc_1 X0 X0 X0 X0 = k4_zfmisc_1 X1 X1 \\ & X1 X1) \Rightarrow (X0 = X1) \end{aligned}$$