

t33_mcart_1
(TMbvewv1TZHqih4eYSi3Toug3iuQdZ5F1nD)

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Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ (k3_zfmisc_1 X0 X1 X2 = k3_zfmisc_1 X3 X4 X5) \Rightarrow & ((X0 = k1_xboole_0) \vee \\ & ((X1 = k1_xboole_0) \vee ((X2 = k1_xboole_0) \vee ((X0 = X3) \wedge ((X1 = X4) \wedge \\ & X2 = X5)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((X0 \neq k1_xboole_0) \wedge ((X1 \neq k1_xboole_0) \wedge \\ & (X2 \neq k1_xboole_0))) \Leftrightarrow (k3_zfmisc_1 X0 X1 X2 \neq k1_xboole_0) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ (k3_zfmisc_1 X0 X1 X2 = k3_zfmisc_1 X3 X4 X5) \Rightarrow & ((k3_zfmisc_1 X0 X1 \\ & X2 = k1_xboole_0) \vee ((X0 = X3) \wedge ((X1 = X4) \wedge (X2 = X5)))) \end{aligned}$$