

t23_normform

(TMRxpHq73AjvZEKiToBJViX211zuAeC3pCv)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 \forall X0. k7_normform\ X0 = & \text{ReplSep} (\text{toset} (\lambda X1 : \iota. m1_subset_1 \\
 & X1 (k2_zfmisc_1 (k5_finsub_1\ X0) (k5_finsub_1\ X0)))) (\lambda X1 : \\
 & \iota. r1_xboole_0 (k2_domain_1 (k5_finsub_1\ X0) (k5_finsub_1\ X0) \\
 & X1) (k3_domain_1 (k5_finsub_1\ X0) (k5_finsub_1\ X0) X1)) (\lambda X1 : \\
 & \iota. X1)
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 \forall X0. \forall X1. (m1_subset_1\ X1 (k2_zfmisc_1 (k5_finsub_1 \\
 X0) (k5_finsub_1\ X0))) \Rightarrow & ((X1 \in k7_normform\ X0) \Leftrightarrow (r1_xboole_0 (k2_domain_1 \\
 & (k5_finsub_1\ X0) (k5_finsub_1\ X0) X1) (k3_domain_1 (k5_finsub_1 \\
 & X0) (k5_finsub_1\ X0) X1)))
 \end{aligned}$$