

t34_normform (TMMEERzPc- qHqd8nAeBaUY1nqjKeBD13RgDv)

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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 $k10_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k8_subset_1 X0 X1 X2 = k3_xboole_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0.m1_subset_1 (k7_normform X0) (k1_zfmisc_1 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k3_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k5_finsub_1 (k7_normform X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k5_finsub_1 (k7_normform X0))) \Rightarrow (k10_normform X0 X1 X2 = k8_subset_1 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0) (ReplSep2 (toset (\lambda X3 : \iota.m2_subset_1 X3 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0))) (\lambda X3 : \iota.toset (\lambda X4 : \iota.m2_subset_1 X4 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0))) (\lambda X3 : \iota.\lambda X4 : \iota.(X3 \in X1) \wedge (X4 \in X2)) (\lambda X3 : \iota.\lambda X4 : \iota.k1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) X3 X4)))))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k2_zfmisc_1 (k5_finsub_1 \\ & X0) (k5_finsub_1 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k5_finsub_1 \\ & (k7_normform X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k5_finsub_1 \\ & (k7_normform X0))) \Rightarrow (\neg (X1 \in k10_normform X0 X2 X3) \wedge (\forall X4. \\ & (m2_subset_1 X4 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) \\ & (k7_normform X0))) \Rightarrow (\forall X5. (m2_subset_1 X5 (k2_zfmisc_1 (\\ & k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0))) \Rightarrow (\neg (X4 \in X2) \wedge \\ & ((X5 \in X3) \wedge (X1 = k1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) X4 \\ & X5))))))))) \end{aligned}$$