

t42_normform (TM-
Jesd5EjP2HtPnEcWuD3WFZN7P7GCPgrJZ)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $k8_normform : \iota \Rightarrow \iota$ be given. Let $k9_normform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform X0))) \Rightarrow (r1_tarski (k9_normform X0 X1) X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_subset_1 X1 (k2_zfmisc_1 (k5_finsub_1 \\ & X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 (k5_finsub_1 (k7_normform X0))) \Rightarrow (((X1 \in X2) \wedge (\forall X3. (m2_subset_1 \\ & X3 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform \\ & X0)) \Rightarrow (((X3 \in X2) \wedge (r1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) \\ & X3 X1)) \Rightarrow (X3 = X1)))) \Rightarrow (X1 \in k9_normform X0 X2))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_subset_1 X1 (k2_zfmisc_1 (k5_finsub_1 \\ & X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform \\ & X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 (k5_finsub_1 (k7_normform X0))) \Rightarrow \\ & (((X3 \in k8_normform X0) \wedge ((X1 \in X3) \wedge ((X2 \in X3) \wedge (r1_normform (k5_finsub_1 \\ & X0) (k5_finsub_1 X0) X1 X2)))) \Rightarrow (X1 = X2)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge((\neg v1_xboole_0 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 X0))))\Rightarrow(\forall X2.(m2_subset_1 X2 X0 X1)\Leftrightarrow(m1_subset_1 X2 X1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k5_finsub_1 (k7_normform X0)))\Rightarrow(\forall X2.(m1_subset_1 X2 (k5_finsub_1 (k7_normform X0)))\Rightarrow((\forall X3.(m2_subset_1 X3 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0))\Rightarrow((X3 \in X1)\Rightarrow(X3 \in X2))))\Rightarrow(r1_tarSKI X1 X2)) \quad (6)$$

Assume the following.

$$\forall X0.\neg v1_xboole_0 (k8_normform X0) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge((\neg v1_xboole_0 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 X0))))\Rightarrow(\forall X2.(m2_subset_1 X2 X0 X1)\Rightarrow(m1_subset_1 X2 X0)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k5_finsub_1 (k7_normform X0)))\Rightarrow(m2_subset_1 X1 (k9_normform X0 X1) (k5_finsub_1 (k7_normform X0) (k8_normform X0)) \quad (9)$$

Assume the following.

$$\forall X0.m1_subset_1 (k8_normform X0) (k1_zfmisc_1 (k5_finsub_1 (k7_normform X0))) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1_tarSKI X0 X1)\wedge(r1_tarSKI X1 X0)) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_xboole_0 X1)) \quad (12)$$

Theorem 1

$$\forall X0.\forall X1.(m2_subset_1 X1 (k5_finsub_1 (k7_normform X0) (k8_normform X0))\Rightarrow(k9_normform X0 X1 = X1))$$