

t45_normform

(TMHRGvvgghaefTnf4fWDpx2J9Kdosv4rQcj1)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $k9_normform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_setwiseo : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (k9_normform X0 (k5_setwiseo (k7_normform X0) (k9_normform \\ & X0 X1) X2) = k9_normform X0 (k5_setwiseo (k7_normform X0) X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform X0))) \Rightarrow (r1_tarski (k9_normform X0 X1) X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 X0)) \Rightarrow (\forall X2. (r1_tarski X2 X1) \Rightarrow (m1_subset_1 X2 (k5_finsub_1 X0))) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k5_finsub_1 \\ & X0)) \wedge (m1_subset_1 X2 (k5_finsub_1 X0))) \Rightarrow (k5_setwiseo X0 X1 X2 = \\ & k5_setwiseo X0 X2 X1) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (k9_normform X0 (k5_setwiseo (k7_normform X0) X1 (k9_normform \\ & X0 X2)) = k9_normform X0 (k5_setwiseo (k7_normform X0) X1 X2))) \end{aligned}$$