

t11_catalg_1
(TMJm5LiGKKZ6Ku2XMwm6Wf9Vw4xhN3c2ESQ)

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Let $k5_catalg_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4_tarski X0 X1 = k4_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (k9_finseq_1 X0 = k9_finseq_1 X1) \Rightarrow (X0 = X1) \quad (2)$$

Assume the following.

$$\forall X0. k5_catalg_1 X0 = k4_tarski np_1 (k9_finseq_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (4)$$

Theorem 1 $\forall X0. \forall X1. (k5_catalg_1 X0 = k5_catalg_1 X1) \Rightarrow (X0 = X1)$.