

t27_classes1

(TMQTBtFBmivz8zsQnK5o7sJdEmRbP1o1dqF)

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Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X1 \in k1_classes1 X0) \wedge (X2 \in k1_classes1 X0)) \Rightarrow ((k1_tarski X1 \in k1_classes1 X0) \wedge (k2_tarski X1 X2 \in k1_classes1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. ((X1 \in k1_classes1 X0) \wedge (X2 \in k1_classes1 X0)) \Rightarrow (k4_tarski X1 X2 \in k1_classes1 X0)$$