

t3_classes1 (TMGXCb- MYo9byJuSPudxoMdB6oyCwfYzLtQE)

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Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_classes1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_classes1 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $r2_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (X1 = k1_classes1 X0) \Leftrightarrow ((r1_classes1 X0 X1) \wedge (\forall X2. (r1_classes1 X0 X2) \Rightarrow (r1_tarski X1 X2))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_classes1 X0 X1) \Leftrightarrow ((X0 \in X1) \wedge (v2_classes1 X1)) \quad (2)$$

Assume the following.

$$\forall X0. (v2_classes1 X0) \Leftrightarrow ((v1_classes1 X0) \wedge ((\forall X1. (X1 \in X0) \Rightarrow (k9_setfam_1 X1 \in X0)) \wedge (\forall X1. \neg (r1_tarski X1 X0) \wedge (\neg r2_tarski X1 X0) \wedge (\neg X1 \in X0)))) \quad (3)$$

Assume the following.

$$\forall X0. (v1_classes1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (r1_tarski X2 X1)) \Rightarrow (X2 \in X0)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. ((X0 \in k1_classes1 X1) \wedge (r1_tarski X2 X0)) \Rightarrow (X2 \in k1_classes1 X1)$$