

t12_classes1 (TM-
NqM7SrWfQ3NFjsN5bH3PYdcJXPSZcaDne)

October 27, 2020

Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_classes1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (v3_ordinal1 X2) \Rightarrow ((X0 \in k3_classes1 \\ X1 (k1_ordinal1 X2)) \Leftrightarrow (\neg(\neg(r1_tarski X0 (k3_classes1 X1 X2)) \wedge (\\ X0 \in k1_classes1 X1)) \wedge (\forall X3. \neg(X3 \in k3_classes1 X1 X2) \wedge ((r1_tarski \\ X0 X3) \vee (X0 = k9_setfam_1 X3)))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (v3_ordinal1 X2) \Rightarrow ((X0 \in k3_classes1 \\ X1 X2) \Rightarrow (k9_setfam_1 X0 \in k3_classes1 X1 (k1_ordinal1 X2))) \end{aligned}$$