

t67_classes2

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Let $k16_classes2 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k14_classes2 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_0 : \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k13_classes2 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_classes1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_classes2 : \iota \Rightarrow \iota$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (2)$$

Assume the following.

$$k1_ordinal1 np_0 = np_1 \quad (3)$$

Assume the following.

$$\begin{aligned} & (k16_classes2 k1_xboole_0 = k13_classes2) \wedge ((\forall X0.(v3_ordinal1 \\ & X0) \Rightarrow (k16_classes2 (k1_ordinal1 X0) = k1_classes1 (k16_classes2 \\ & X0))) \wedge (\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.((v1_relat_1 \\ & X1) \wedge ((v5_ordinal1 X1) \wedge (v1_funct_1 X1)))) \Rightarrow (((v4_ordinal1 X0) \wedge \\ & ((k9_xtuple_0 X1 = X0) \wedge (\forall X2.(v3_ordinal1 X2) \Rightarrow ((X2 \in X0) \Rightarrow \\ & (k1_funct_1 X1 X2 = k16_classes2 X2)))))) \Rightarrow ((X0 = k1_xboole_0) \vee (\\ & k16_classes2 X0 = k15_classes2 (k3_card_3 X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$k14_classes2 = k1_classes1 k13_classes2 \quad (5)$$

Assume the following.

$$\forall X0.k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v3_ordinal1 X0) \quad (7)$$

Theorem 1 $k16_classes2 \text{ np_1} = k14_classes2$.