t26_classes2 (TMJ5WRYNgN9PSiCFmvZXPTxmq72UFKzSBuq)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k2\_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1\_classes1 : \iota \Rightarrow \iota$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_classes1 : \iota \Rightarrow \iota$ be given. Let $v2\_classes1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.((v2\_classes1\ X1) \wedge (X0 \in k2\_ordinal1\ X1)) \Rightarrow ((k1\_card\_1\ (k4\_classes1\ X0) \in k1\_card\_1\ X1) \wedge (k4\_classes1\ X0 \in X1))) \tag{1}$$

Assume the following.

$$\forall X0.v2\_classes1\ (k1\_classes1\ X0) \tag{2}$$

Theorem 1

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (\forall X1.(X0 \in k2\_ordinal1\ (k1\_classes1\ X1)) \Rightarrow ((k1\_card\_1\ (k4\_classes1\ X0) \in k1\_card\_1\ (k1\_classes1\ X1)) \wedge (k4\_classes1\ X0 \in k1\_classes1\ X1)))$$