

# t43\_classes2 (TMcyfvnch- hGkRmyCL3QMF52BaAtdgSegvMJ)

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Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $v2\_classes1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. ((v2\_classes1 X0) \wedge ((v1\_ordinal1 X1) \wedge (X1 \in X0))) \Rightarrow (X1 \in k4\_classes1 (k1\_card\_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. v2\_classes1 (k1\_classes1 X0) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. ((v1\_ordinal1 X0) \wedge (X0 \in k1\_classes1 X1)) \Rightarrow (X0 \in k4\_classes1 (k1\_card\_1 (k1\_classes1 X1)))$$