

# t45\_classes2 (TMGtR XMgHdnB- WrQ7gnLbExsR169rBbWVvC8)

October 27, 2020

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

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

Assume the following.

$$\forall X0.(v1\_ordinal1 X0) \Rightarrow (v1\_ordinal1 (k1\_classes1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.v2\_classes1 (k1\_classes1 X0) \quad (3)$$

**Theorem 1**

$$\forall X0.(v1\_ordinal1 X0) \Rightarrow (k4\_classes1 (k1\_card\_1 (k1\_classes1 X0)) = k1\_classes1 X0)$$