

## t26\_card\_1

(TMTXZVs2eR7KLJuUW1xMTR1SBYKodBeNvYs)

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Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow ((k9\_xtuple\_0 X0 = k1\_xboole\_0) \Leftrightarrow (k10\_xtuple\_0 X0 = k1\_xboole\_0)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(r2\_wellord2 X0 X1) \Leftrightarrow (\exists X2.((v1\_relat\_1 X2) \wedge (v1\_funct\_1 X2)) \wedge ((v2\_funct\_1 X2) \wedge ((k9\_xtuple\_0 X2 = X0) \wedge (k10\_xtuple\_0 X2 = X1)))) \quad (2)$$

**Theorem 1**  $\forall X0.(r2\_wellord2 X0 k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0)$ .