t19_card_1 (TMc9KnPcQeafXkpLXrNnn7imTdmyL3sSFNe)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k3\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k2\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v4\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_ordinal2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.k3\_tarski\ (k1\_tarski\ X0) = X0 \tag{1}$$

Assume the following.

$$(k3\_card\_1\ k1\_xboole\_0 = k1\_card\_1\ k4\_ordinal1) \wedge ((\forall X0.\ (v3\_ordinal1\ X0) \Rightarrow (k3\_card\_1\ (k1\_ordinal1\ X0) = k2\_card\_1\ (k3\_tarski\ (k1\_tarski\ (k3\_card\_1\ X0))))) \wedge (\forall X0.(v3\_ordinal1\ X0) \Rightarrow ((v4\_ordinal1\ X0) \Rightarrow ((X0 = k1\_xboole\_0) \vee (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v5\_ordinal1\ X1))) \Rightarrow (((k9\_xtuple\_0\ X1 = X0) \wedge (\forall X2.(v3\_ordinal1\ X2) \Rightarrow ((X2 \in X0) \Rightarrow (k1\_funct\_1\ X1\ X2 = k3\_card\_1\ X2)))) \Rightarrow (k3\_card\_1\ X0 = k1\_card\_1\ (k4\_ordinal2\ X1)))))))) \tag{2}$$

Theorem 1

$$\forall X0.(v3\_ordinal1\ X0) \Rightarrow (k3\_card\_1\ (k1\_ordinal1\ X0) = k2\_card\_1\ (k3\_card\_1\ X0))$$