t118_funct_7 (TMRnWrdd4jHc97LdKAFxSRCKibQ6kAhj8Pj)

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Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k11\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k7\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow (\forall X1.\forall X2.\ k9\_xtuple\_0\ (k2\_funct\_7\ X0\ X2\ X1) = k9\_xtuple\_0\ X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(k9\_xtuple\_0\ (k2\_funcop\_1\ X0\ X1) = X0) \wedge (r1\_tarski\ (k10\_xtuple\_0\ (k2\_funcop\_1\ X0\ X1))\ (k1\_tarski\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k7\_funcop\_1\ X0\ X1 = k2\_funcop\_1\ X0\ X1 \tag{3}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ (k2\_funcop\_1\ X0\ X1)) \wedge ((v4\_relat\_1\ (k2\_funcop\_1\ X0\ X1)\ X0) \wedge ((v1\_funct\_1\ (k2\_funcop\_1\ X0\ X1)) \wedge (v1\_partfun1\ (k2\_funcop\_1\ X0\ X1)\ X0))) \tag{6}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.k11\_funct\_7\ X0\ X1 = k2\_funct\_7\ (k7\_funcop\_1\ k5\_numbers\ X1)\ k6\_numbers\ X0 \tag{8}$$

Theorem 1 $\forall X0.\forall X1.k9\_xtuple\_0\ (k11\_funct\_7\ X0\ X1) = k5\_numbers.$