t65_funct_1 (TMbWdm4ZSYunfcBb2YFAzLRb4wqkcjBp1iv)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k7\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow ((\forall X1.\forall X2.\ k7\_relat\_1\ X0\ (k3\_xboole\_0\ X1\ X2) = k3\_xboole\_0\ (k7\_relat\_1\ X0\ X1)\ (k7\_relat\_1\ X0\ X2)) \Rightarrow (v2\_funct\_1\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.k4\_xboole\_0\ X0\ (k4\_xboole\_0\ X0\ X1) = k3\_xboole\_0\ X0\ X1 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1\ X0\ X1 = k4\_xboole\_0\ X0\ X1 \tag{3}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow ((\forall X1.\forall X2.\ k7\_relat\_1\ X0\ (k6\_subset\_1\ X1\ X2) = k6\_subset\_1\ (k7\_relat\_1\ X0\ X1)\ (k7\_relat\_1\ X0\ X2)) \Rightarrow (v2\_funct\_1\ X0))$$