

t66\_funct\_1  
(TMZwt1mGQQyZXRLiS8RZcYXRf1adxCSm7Ao)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v2\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k7\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_xboole\_0 X0 X1) \Leftrightarrow (k4\_xboole\_0 X0 X1 = X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge (v1\_funct\_1 X2)) \Rightarrow ((v2\_funct\_1 X2) \Rightarrow (k7\_relat\_1 X2 (k6\_subset\_1 X0 X1) = k6\_subset\_1 (k7\_relat\_1 X2 X0) (k7\_relat\_1 X2 X1))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. ((v1\_relat\_1 X2) \wedge (v1\_funct\_1 X2)) \Rightarrow (((r1\_xboole\_0 X0 X1) \wedge (v2\_funct\_1 X2)) \Rightarrow (r1\_xboole\_0 (k7\_relat\_1 X2 X0) (k7\_relat\_1 X2 X1)))$$