# t58_funct_6 (TMbKxzsjq2pJpuwsg6L9NgFeSh5GEB5f8kb)

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Let $k10\_funct\_6 : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_funct\_5 : \iota \Rightarrow \iota$ be given. Let $k4\_funct\_5 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_5 : \iota \Rightarrow \iota$ be given. Let $k3\_funct\_5 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$(k2\_funct\_5\ k1\_xboole\_0 = k1\_xboole\_0) \wedge (k4\_funct\_5\ k1\_xboole\_0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$(k1\_funct\_5\ k1\_xboole\_0 = k1\_xboole\_0) \wedge (k3\_funct\_5\ k1\_xboole\_0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow (k10\_funct\_6\ X0 = k3\_funct\_5\ (k2\_funct\_5\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (v1\_relat\_1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (v1\_funct\_1\ X0) \tag{6}$$

**Theorem 1** $k10\_funct\_6\ k1\_xboole\_0 = k1\_xboole\_0$.