

t43_funct_5 (TMKmpWgYnZvLrEFFFvjBQHB- HeFMeeFs9XdH)

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Let $k2_funct_5 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_funct_5 : \iota \Rightarrow \iota$ 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. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((\forall X1. \neg \\ (X1 \in k9_xtuple_0 X0) \wedge ((v1_relat_1 (k1_funct_1 X0 X1)) \wedge (v1_funct_1 \\ (k1_funct_1 X0 X1)))) \Rightarrow ((k2_funct_5 X0 = k1_xboole_0) \wedge (k4_funct_5 \\ X0 = k1_xboole_0))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_xboole_0 (k9_xtuple_0 X0)) \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_funct_1 X0) \quad (6)$$

Theorem 1

$$(k2_funct_5 k1_xboole_0 = k1_xboole_0) \wedge (k4_funct_5 k1_xboole_0 = k1_xboole_0)$$