

t62_funct_7
(TMXiCaonYRr2PrT733tcPCikTuJcyryDqkb)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v1_funct_7 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_funct_7 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge ((v1_finseq_1 X1) \wedge (v1_funct_7 X1)))) \Rightarrow ((X1 \neq k1_xboole_0) \Rightarrow (k9_xtuple_0 (k4_funct_7 X0 X1) = k3_xboole_0 (k6_funct_7 X1) X0)) \quad (1)$$

Assume the following.

$$\forall X0. k4_funct_7 X0 k1_xboole_0 = k6_partfun1 X0 \quad (2)$$

Assume the following.

$$\forall X0. k6_partfun1 X0 = k4_relat_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. k9_xtuple_0 (k4_relat_1 X0) = X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X0 = X0 \quad (5)$$

Theorem 1

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_finseq_1 X0) \wedge (v1_funct_7 X0)))) \Rightarrow (k9_xtuple_0 (k4_funct_7 (k6_funct_7 X0) X0) = k6_funct_7 X0)$$