

l36_cgames_1 (TMVMZBgGbfyehRCHuo-
QcZEWdgwKoFN9Za4B)

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Let $v2_cgames_1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v3_cgames_1 : \iota \Rightarrow o$ be given. Let $v4_cgames_1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow ((X1 = k9_finseq_1 X0) \Leftrightarrow ((k3_finseq_1 X1 = np_1) \wedge (k1_funct_1 X1 np_1 = X0))) \quad (1)$$

Assume the following.

$$\forall X0. k9_finseq_1 X0 = k5_finseq_1 X0 \quad (2)$$

Assume the following.

$$\forall X0. (v2_cgames_1 X0) \Rightarrow (v4_cgames_1 (k5_finseq_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. v1_finseq_1 (k5_finseq_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k5_finseq_1 X0)) \wedge (v1_funct_1 (k5_finseq_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0. (v2_cgames_1 X0) \Rightarrow (v3_cgames_1 (k5_finseq_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k5_finseq_1 X0) \quad (7)$$

Theorem 1

$$\forall X0.(v2_cgames_1 X0) \Rightarrow (\exists X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge ((\neg v1_xboole_0 X1) \wedge ((v1_finseq_1 X1) \wedge ((v3_cgames_1 X1) \wedge (v4_cgames_1 X1)))))) \wedge ((k1_funct_1 X1 \text{ np_1} = X0) \wedge (k1_funct_1 X1 (k3_finseq_1 X1) = X0)))$$