

t27_cfunctdom

(TMUuNHKMwye3PgoufhgPHSuafu3d262PE8k)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k8_cfunctdom : \iota \Rightarrow \iota$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_clvect_1 : \iota \Rightarrow o$ be given. Let $v4_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v1_vectsp_1 : \iota \Rightarrow o$ be given. Let $v3_vectsp_1 : \iota \Rightarrow o$ be given. Let $v2_cfunctdom : \iota \Rightarrow o$ be given. Let $l1_cfunctdom : \iota \Rightarrow o$ be given. Let $v1_cfunctdom : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & ((v13_algstr_0 (k8_cfunctdom X0)) \wedge \\ & ((v2_rlvect_1 (k8_cfunctdom X0)) \wedge ((v3_rlvect_1 (k8_cfunctdom \\ X0)) \wedge ((v4_rlvect_1 (k8_cfunctdom X0)) \wedge ((v2_clvect_1 (k8_cfunctdom \\ X0)) \wedge ((v3_clvect_1 (k8_cfunctdom X0)) \wedge ((v4_clvect_1 (k8_cfunctdom \\ X0)) \wedge ((v3_group_1 (k8_cfunctdom X0)) \wedge ((v5_group_1 (k8_cfunctdom \\ X0)) \wedge ((v1_vectsp_1 (k8_cfunctdom X0)) \wedge ((v3_vectsp_1 (k8_cfunctdom \\ X0)) \wedge ((v1_cfunctdom (k8_cfunctdom X0)) \wedge (v2_cfunctdom (k8_cfunctdom \\ X0))))))))))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((\neg v2_struct_0 (k8_cfunctdom X0)) \wedge (v1_cfunctdom (k8_cfunctdom X0))) \tag{2}$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((v1_cfunctdom (k8_cfunctdom X0)) \wedge (l1_cfunctdom (k8_cfunctdom X0))) \tag{3}$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & ((\neg v2_struct_0 (k8_cfundom X0)) \wedge \\ & ((v13_algstr_0 (k8_cfundom X0)) \wedge (v2_rlvect_1 (k8_cfundom \\ & X0)) \wedge (v3_rlvect_1 (k8_cfundom X0)) \wedge (v4_rlvect_1 (k8_cfundom \\ & X0)) \wedge (v2_clvect_1 (k8_cfundom X0)) \wedge (v3_clvect_1 (k8_cfundom \\ & X0)) \wedge (v4_clvect_1 (k8_cfundom X0)) \wedge (v3_group_1 (k8_cfundom \\ & X0)) \wedge (v5_group_1 (k8_cfundom X0)) \wedge (v1_vectsp_1 (k8_cfundom \\ & X0)) \wedge (v3_vectsp_1 (k8_cfundom X0)) \wedge (v2_cfundom (k8_cfundom \\ & X0)) \wedge (l1_cfundom (k8_cfundom X0)))))) \end{aligned}$$