

t137_pboole (TMVaMoNR- bQjMGKysY8tP1PEn9qZgDwa6Zbb)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v2_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow ((v2_relat_1 X0) \Leftrightarrow (\neg k1_xboole_0 \in k10_xtuple_0 X0)) \quad (1)$$

Theorem 1

$$\forall X0.\forall X1.((v1_relat_1 X1) \wedge ((v2_relat_1 X1) \wedge ((v4_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge (v1_partfun1 X1 X0))))) \Rightarrow (\neg k1_xboole_0 \in k10_xtuple_0 X1)$$