

t80_monoid_0

(TMSsvhfPncLWSbifMNyfUogQLdmS1wcKsbP)

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Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v4_funct_1 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_monoid_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow ((v1_monoid_0 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v1_relat_1 X1) \wedge (v1_funct_1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v4_funct_1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge (v1_funct_1 X1))) \quad (2)$$

Theorem 1

$$\forall X0.(l1_struct_0 X0) \Rightarrow ((v4_funct_1 (u1_struct_0 X0)) \Rightarrow (v1_monoid_0 X0))$$