

t35_frechet

(TMRyJjhWuj1RSMcJwpt8Z4qu9uSy3pprC8L)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $r1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((r1_partfun1 X0 X1) \Leftrightarrow (k2_xboole_0 X0 X1 = k1_funct_4 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k10_xtuple_0 (k2_xboole_0 X0 X1) = k2_xboole_0 (k10_xtuple_0 X0) (k10_xtuple_0 X1) \quad (2)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((r1_partfun1 X0 X1) \Rightarrow (k10_xtuple_0 (k1_funct_4 X0 X1) = k2_xboole_0 (k10_xtuple_0 X0) (k10_xtuple_0 X1))))$$