

t57_mmlquery (TMFFmfmp- knKkLJ3bfzPWKFqpdbKuu9T8hse)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k24_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k25_mmlquery : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.r1_xxreal_0 (k24_mmlquery X0 X1) (k3_finseq_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (v7_ordinal1 (k24_mmlquery X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((X1 = k25_mmlquery X0) \Leftrightarrow ((\forall X2.r1_xxreal_0 (k24_mmlquery X0 X2) X1) \wedge (\forall X2.(v7_ordinal1 X2) \Rightarrow ((\forall X3.r1_xxreal_0 (k24_mmlquery X0 X3) X2) \Rightarrow (r1_xxreal_0 X1 X2))))))) \quad (3)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.(k24_mmlquery X0 X1 = k3_finseq_1 X0) \Rightarrow (k25_mmlquery X0 = k3_finseq_1 X0))$$