

t22_rewrite1 (TM-
cfA4DL8X1ZRMsX9k6XiMNnpVPmHVGUkJz)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_rewrite1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(v1_relat_1 X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (\forall X2.(m1_rewrite1 X2 X0) \Rightarrow (m1_rewrite1 X2 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.\forall X2.(r1_rewrite1 X0 X1 X2) \Leftrightarrow (\exists X3.(m1_rewrite1 X3 X0) \wedge ((k1_funct_1 X3 np_1 = X1) \wedge (k1_funct_1 X3 (k3_finseq_1 X3) = X2)))) \quad (2)$$

Theorem 1

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(v1_relat_1 X1) \Rightarrow ((r1_tarski X0 X1) \Rightarrow (\forall X2.\forall X3.(r1_rewrite1 X0 X2 X3) \Rightarrow (r1_rewrite1 X1 X2 X3))))$$