

t26_rewrite1 (TMaEZEU- umfhShtN24jpMcRnbCfQ1TvZMKds)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r2_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.\forall X2.(r1_rewrite1 X0 X1 X2) \Rightarrow ((r2_rewrite1 X0 X1 X2) \wedge (r2_rewrite1 X0 X2 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.r1_rewrite1 X0 X1 X1) \quad (2)$$

Theorem 1 $\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.r2_rewrite1 X0 X1 X1)$.