

t35_rewrite1
(TMW41zVcbZcSPBjZspQ8BifqEWirm877D24)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $r4_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_rewrite1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(\neg X1 \in k1_relat_1 X0) \Rightarrow (r3_rewrite1 X0 X1)) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.\forall X2.(r4_rewrite1 X0 X1 X2) \Leftrightarrow ((r3_rewrite1 X0 X2) \wedge (r1_rewrite1 X0 X1 X2))) \quad (3)$$

Theorem 1

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(\neg X1 \in k1_relat_1 X0) \Rightarrow (r4_rewrite1 X0 X1 X1))$$