

t46_rewrite1 (TMHd-
PeWipC1uhdRgNfbey9ta5VmX8V3YUp9)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $r9_rewrite1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r4_rewrite1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(\neg X1 \in k1_relat_1 X0) \Rightarrow (r4_rewrite1 X0 X1 X1)) \Rightarrow \quad (1)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(r9_rewrite1 X0 X1) \Leftrightarrow (\exists X2.r4_rewrite1 X0 X1 X2)) \quad (2)$$

Theorem 1

$$\forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(\neg X1 \in k1_relat_1 X0) \Rightarrow (r9_rewrite1 X0 X1))$$