

t55_relat_1
(TMdr16L86N82inyPZ6rnJ3r9xJ2omhNZ5og)

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Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (((k9_xtuple_0 X0 = k1_xboole_0) \vee (k10_xtuple_0 X0 = k1_xboole_0)) \Rightarrow (X0 = k1_xboole_0)) \quad (1)$$

Assume the following.

$$\forall X0.k10_xtuple_0 (k4_relat_1 X0) = X0 \quad (2)$$

Assume the following.

$$\forall X0.v1_relat_1 (k4_relat_1 X0) \quad (3)$$

Theorem 1 $k4_relat_1 k1_xboole_0 = k1_xboole_0$.