

t2_euclid_7

(TMVmYcz765w64hvY52yq1PoQKeNh6jNjB8Q)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k8_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (k3_xboole_0 X0 X1 = X0) \quad (1)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (k8_relat_1 X0 (k10_xtuple_0 X0) = k9_xtuple_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (k8_relat_1 X1 X0 = k8_relat_1 X1 (k3_xboole_0 (k10_xtuple_0 X1) X0)) \quad (3)$$

Theorem 1

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r1_tarski (k10_xtuple_0 X0) X1) \Rightarrow (k8_relat_1 X0 X1 = k9_xtuple_0 X0))$$