

t5_facirc_1
(TMXmz1yygnLxbB4bEpjYgQf3xKeh3zsa8A5)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_facirc_1 : \iota \Rightarrow o$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $k4_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1_xboole_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1_xboole_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. v1_xtuple_0 (k4_tarSKI X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1_facirc_1 X0) \Leftrightarrow (\exists X1. (v1_xtuple_0 X1) \wedge (X1 \in X0)) \quad (3)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Leftrightarrow (\forall X1. \neg(X1 \in X0) \wedge (\forall X2. \forall X3. X1 \neq k4_tarSKI X2 X3)) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((v1_facirc_1 X0) \vee (r1_xboole_0 X0 X1))$$