

# t31\_partit\_2 (TM- FyCg3KHPi58jCQ8XAMAg8Kd52GyehtdTc)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r2\_relat\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v2\_relat\_2 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4\_tarski\ X0\ X1 \in k2\_zfmisc\_1\ X2\ X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_relat\_1\ X0) \Rightarrow (\forall X1. (r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2. \forall X3. (k4\_tarski\ X2\ X3 \in X0) \Rightarrow (k4\_tarski\ X2\ X3 \in X1))) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_relat\_1\ X0) \Rightarrow (\forall X1. (r2\_relat\_2\ X0\ X1) \Leftrightarrow (\forall X2. \neg (X2 \in X1) \wedge (k4\_tarski\ X2\ X2 \in X0))) \quad (4)$$

Assume the following.

$$\forall X0. (v1\_relat\_1\ X0) \Rightarrow ((v2\_relat\_2\ X0) \Leftrightarrow (r2\_relat\_2\ X0\ (k1\_relat\_1\ X0))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \quad (6)$$

## Theorem 1

$$\forall X0. (\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1. (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))) \Rightarrow ((r2\_relat\_2\ X1\ X0) \Rightarrow (v2\_relat\_2\ X1)))$$