

l3\_ramsey\_1  
(TMaEhr3ARHQevFneBiaz5JBN9cu6WVzN2Z9)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_group\_10 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k3\_group\_10 X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))) (\lambda X2 : \iota. k1\_card\_1 X2 = X1) (\lambda X2 : \iota. X2) \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (r1\_tarski X0 X1) \Rightarrow (r1\_tarski (k3\_group\_10 X0 X2) (k3\_group\_10 X1 X2))$$