

# l5\_comseq\_3 (TMaBNo- cYNs17ZoBCnbGqLWukSzng7WzzuJa)

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Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k8\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  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  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k2\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v4\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. (m1\_subset\_1 X2 X1) \Rightarrow ((v1\_funct\_1 (k8\_funcop\_1 X1 X0 X2)) \wedge ((v1\_funct\_2 (k8\_funcop\_1 X1 X0 X2) X0 X1) \wedge (m1\_subset\_1 (k8\_funcop\_1 X1 X0 X2) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))))) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 \in X1) \Rightarrow ((v1\_funct\_1 (k2\_funcop\_1 X0 X2)) \wedge ((v1\_funct\_2 (k2\_funcop\_1 X0 X2) X0 X1) \wedge (m1\_subset\_1 (k2\_funcop\_1 X0 X2) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))))) \tag{2}$$

Assume the following.

$$m1\_subset\_1 k1\_xboole\_0 k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X0) \wedge (m1\_subset\_1 X2 X0)) \Rightarrow (k8\_funcop\_1 X0 X1 X2 = k2\_funcop\_1 X1 X2) \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))\Rightarrow(\forall X2. (X2 \in X1)\Rightarrow(X2 \in X0)) \quad (7)$$

Assume the following.

$$(\neg v1\_xboole\_0 k4\_ordinal1)\wedge(v3\_ordinal1 k4\_ordinal1) \quad (8)$$

Assume the following.

$$m1\_subset\_1 k5\_numbers (k1\_zfmisc\_1 k1\_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(X0 = k4\_ordinal1)\Leftrightarrow(((k1\_xboole\_0 \in X0)\wedge((v4\_ordinal1 X0)\wedge((v3\_ordinal1 X0)\wedge(\forall X1.(v3\_ordinal1 X1)\Rightarrow(((k1\_xboole\_0 \in X1)\wedge(v4\_ordinal1 X1))\Rightarrow(r1\_tarski X0 X1))))))) \quad (10)$$

**Theorem 1**

$$(v1\_funct\_1 (k8\_funcop\_1 k5\_numbers k5\_numbers k6\_numbers))\wedge ((v1\_funct\_2 (k8\_funcop\_1 k5\_numbers k5\_numbers k6\_numbers) k5\_numbers k1\_numbers)\wedge(m1\_subset\_1 (k8\_funcop\_1 k5\_numbers k5\_numbers k6\_numbers) (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers k1\_numbers))))))$$