

# l6\_jordan1h

(TMQor5wGgRD34EGsMCXXur9Vv7Bet4Yyrdm)

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Let  $r1\_relat\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_jordan1h : \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1\_subset\_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xxreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (r1\_xxreal\_0 X0 X0) \quad (2)$$

Assume the following.

$$m1\_subset\_1 k1\_jordan1h (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_numbers k1\_numbers)) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. (r1\_relat\_2 X0 X1) \Leftrightarrow (\forall X2. (X2 \in X1) \Rightarrow (k4\_tarski X2 X2 \in X0))) \quad (4)$$

Assume the following.

$$k1\_jordan1h = ReplSep2 (toset (\lambda X0 : \iota. m1\_subset\_1 X0 k1\_numbers)) ( \lambda X0 : \iota. toset (\lambda X1 : \iota. m1\_subset\_1 X1 k1\_numbers)) ( \lambda X0 : \iota. \lambda X1 : \iota. r1\_xxreal\_0 X0 X1) (\lambda X0 : \iota. \lambda X1 : \iota. k4\_tarski X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. (v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (6)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow(v1\_relat\_1 X2) \quad (8)$$

**Theorem 1**  $r1\_relat\_2$   $k1\_jordan1h$   $k1\_numbers$ .