

# t4\_jordan1h (TMWAVhLcEprzeuRKQZJNvMZe- hbP4U1SSaYM)

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

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4\_tarski X0 X1 = k4\_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (1)$$

Assume the following.

$$k1\_jordan1h = ReplSep2 (toset (\lambda X0 : \iota. m1\_subset\_1 X0 k1\_numbers)) (\lambda X0 : \iota. toset (\lambda X1 : \iota. m1\_subset\_1 X1 k1\_numbers)) (\lambda X0 : \iota. \lambda X1 : \iota. r1\_xxreal\_0 X0 X1) (\lambda X0 : \iota. \lambda X1 : \iota. k4\_tarski X0 X1) \quad (2)$$

## Theorem 1

$$\forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1. (m1\_subset\_1 X1 k1\_numbers) \Rightarrow ((k4\_tarski X0 X1 \in k1\_jordan1h) \Rightarrow (r1\_xxreal\_0 X0 X1)))$$