

# t8\_heyting2 (TMQYyo- DLpZWLaphr4yDaJ9WdeszehYXBG4d)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_heyting2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (v1\_finset\_1 X1) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k5\_finsub\_1 (k4\_partfun1 X0 X1))) \Rightarrow (r1\_tarski (k1\_heyting2 X0 X1 X2) X0)) \quad (1)$$

Assume the following.

$$\forall X0. (r1\_tarski X0 k1\_xboole\_0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

## Theorem 1

$$\forall X0. (v1\_finset\_1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k5\_finsub\_1 (k4\_partfun1 k1\_xboole\_0 X0))) \Rightarrow (k1\_heyting2 k1\_xboole\_0 X0 X1 = k1\_xboole\_0))$$