

# t3\_heyting1 (TMJxUr- wdsMhE7KenYvLQx9uNmGjLyJ3zRuh)

October 27, 2020

Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_normform : \iota \Rightarrow \iota$  be given. Let  $k8\_normform : \iota \Rightarrow \iota$  be given. Let  $k9\_normform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m2\_subset\_1 X1 (k5\_finsub\_1 (k7\_normform X0)) (k8\_normform X0)) \Rightarrow (k9\_normform X0 (k10\_normform X0 X1 X1) = k9\_normform X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_subset\_1 X1 (k5\_finsub\_1 (k7\_normform X0)) (k8\_normform X0)) \Rightarrow (k9\_normform X0 X1 = X1) \quad (2)$$

## Theorem 1

$$\forall X0. \forall X1. (m2\_subset\_1 X1 (k5\_finsub\_1 (k7\_normform X0)) (k8\_normform X0)) \Rightarrow (k9\_normform X0 (k10\_normform X0 X1 X1) = X1)$$