

# t141\_xboolean (TMZXYVebiKCRdww- MazDGEhNXAmnwV6dd8EZ)

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Let  $v1\_xboolean : \iota \Rightarrow o$  be given. Let  $k3\_xboolean : \iota \Rightarrow \iota$  be given. Let  $k6\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboolean : \iota$  be given. Let  $k4\_xboolean : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboolean : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole_0 : \iota$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k4\_xboolean X0 (k3\_xboolean X0) = k1\_xboolean) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k6\_xboolean X0 X0 = k2\_xboolean) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k3\_xboolean (k4\_xboolean X0 (k3\_xboolean X0)) = k2\_xboolean) \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k3\_xboolean (k3\_xboolean X0) = X0) \quad (5)$$

Assume the following.

$$v1\_xboolean k1\_xboolean \quad (6)$$

Assume the following.

$$k2\_xboolean = np\_1 \quad (7)$$

Assume the following.

$$k1\_xboolean = k6\_numbers \quad (8)$$

## Theorem 1

$$\forall X0.(v1\_xboolean X0) \Rightarrow (k3\_xboolean (k6\_xboolean X0 X0) = k1\_xboolean)$$