

t46\_borsuk\_5 (TMYpY-  
WbC9aCP5rNSk5HWfQ8TLCLTUGyGcqs)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $k3\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xxreal\_0 : \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xxreal\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\neg \forall X1.(v1\_xreal\_0 X1) \Rightarrow (r1\_xxreal\_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((X1 \in k2\_xxreal\_1 X0 k1\_xxreal\_0) \Leftrightarrow (r1\_xxreal\_0 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 X0) \wedge (v1\_xxreal\_0 X1)) \Rightarrow (k3\_rcomp\_1 X0 X1 = k2\_xxreal\_1 X0 X1) \quad (3)$$

Assume the following.

$$v1\_xxreal\_0 k1\_xxreal\_0 \quad (4)$$

Assume the following.

$$k1\_xxreal\_0 = k1\_numbers \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Leftrightarrow (X0 \in k1\_numbers) \quad (6)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (7)$$

**Theorem 1**  $\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k3\_rcomp\_1 X0 k1\_xxreal\_0 \neq k1\_numbers)$ .