

t25\_borsuk\_5 (TM-  
RKkcXM5e5nnfE1bGgFwRzQnvehiKACCFZ)

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Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_rat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_int\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_int\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (k4\_int\_1 X0 = k3\_int\_1 X0) \quad (1)$$

Assume the following.

$$\forall X0.((v1\_xreal\_0 X0) \wedge (\neg v1\_rat\_1 X0)) \Rightarrow (\neg v1\_rat\_1 (k3\_int\_1 X0)) \quad (2)$$

**Theorem 1**

$$\forall X0.((v1\_xreal\_0 X0) \wedge (\neg v1\_rat\_1 X0)) \Rightarrow (\neg v1\_rat\_1 (k4\_int\_1 X0))$$