

## Solution to Tutorial Exercise 5

### Question 1

(a)

- $f$  is not surjective because

$$f(D) = [0, 100] \neq \mathbb{R}.$$

- $f$  is not injective because  $f$  is not onto, that is, different elements of  $D$  are mapped to the same element in  $\mathbb{R}$ . For example,

$$f(-10) = f(10) = 100.$$

- $f$  is not bijective because  $f$  is neither onto nor one-to-one.

(b)

-

$$f^{-1}(A) = \{x \in D \mid f(x) \in A\} = [-2, 2].$$

-

$$f^{-1}(B) = \{x \in D \mid f(x) \in B\} = [-1, 1].$$

-

$$A \cap B = \{x \in D \mid x \in A \text{ and } x \in B\} = [0, 1]$$

-

$$f^{-1}(A \cap B) = f^{-1}([0, 1]) = [-1, 1].$$

- Yes.

$$f^{-1}(A) \cap f^{-1}(B) = [-2, 2] \cap [-1, 1] = [-1, 1].$$

# R Tutorial And Exercise Solution

**Ernest Weekley**



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