

# Proofs and Fundamentals



## A First Course in Abstract Mathematics

**Lemma 4.3.4.** *Let  $f : A \rightarrow B$  be a function.*

- (i) *If  $f$  has an inverse, then the inverse is unique.*
- (ii) *If  $f$  has a right inverse  $g$  and a left inverse  $h$ , then  $g = h$  and  $f$  has an inverse.*
- (iii) *If  $f$  has an inverse  $g$ , then  $g$  has an inverse, which is  $f$ .*



**Ethan D. Bloch**

**Theorem 4.4.4.** *Let  $A$  and  $B$  be non-empty sets and let  $f : A \rightarrow B$  be a function.*

- (i) *The function  $f$  is surjective if and only if  $f$  has a right inverse  $g : B \rightarrow A$ .*
- (ii) *The function  $f$  is injective if and only if  $f$  has a left inverse  $h : B \rightarrow A$ .*

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# Proofs And Fundamentals A First Course In Abstract Mathematics

**Victor M. Corman**



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