CS113/DISCRETE MATHEMATICS-SPRING 2024

Worksheet 11

Topic: Composite Functions

Today, we will learn about composite functions. Happy Learnin	g!
Student's Name and ID:	
Instructor's name:	

- 1. Suppose that g is a function from A to B and f is a function from B to C. Prove each of these statements
 - (a) If fog is onto, then f must also be onto

(b) If fog is one-to-one, then g must also be one-to-one

(c) If \log is a bijection, then g is onto if and only if f is one-to-one

2. Let $F: X \to Y$ be a function. Show F^-1 is a function from Y to X if and only if F is a 1-1 correspondence.