Math 220 - Discrete Mathematics - Fall 2016 Homework 12b Due Monday, December 5

1. BOOK PROBLEMS

Section 12.4 # 1, 3, 4, 5, 8, 10

2. Additional Problems

In the following problems, let $f : A \to B$ and $g : B \to C$. Prove or disprove the following statements

(1) If f is surjective and g is injective, then $g \circ f$ is a bijection.

(2) If f is injective and g is surjective, then $g \circ f$ is a bijection.

(3) If $g \circ f$ is a bijection, then g is surjective and f is injective.