Please write your solutions in a neat and organized fashion, make sure to write your name and staple the pages together. Please if you are using notebook paper, get rid of the "curlies" from the end where you rip it off. Thanks!

Solve the following problems from the Book of Proof

• Section 12.1: Do # 5 but give an example different from the book’s solution.

• Section 12.2: Do #1 (again give an example different from the book’s solution.), also give examples of functions that are a) bijective, b) injective (but not surjective) and c) surjective (but not injective), 10, 12