MATH 321/421 HOMEWORK 2: DUE 09/25/2024

Directions: Show all of your work on each questions below. Proofs are to be written in full and grammatically correct sentences. The use of quantifiers in proofs such that \forall , \exists , \Longrightarrow in place of the written word will result in a point deduction from a problem for each use of such a quantifier. However, use of the notation $x \in A$ to denote an element x in a set A is perfectly acceptable. Each problem is worth 5 points.

Problems from Textbook: 2.2.3, 2.2.5, 2.2.9, 2.2.12, and 2.2.15.