MATH 321/421 HOMEWORK 2: DUE 09/18/2024

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 $\forall, \exists, \implies$ 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: 2.1.5, 2.1.9, 2.1.12, 2.1.15, 2.1.23.