

MATH 321/421 HOMEWORK 1: DUE 09/11/2024

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: 1.2.8, 1.2.9, 1.2.12, 1.3.5, 1.3.7.