MATH 3161 Homework Assignment 5

Instructions: Solve and turn in all of the assigned problems, showing ALL steps or reasoning used in your solutions.

Due on Tuesday, May 2nd at the BEGINNING of class.

p. 59-62: (Section 2.4) Problem 7(a,b,c)

p. 65-66: (Section 2.5) Problems 1(c,d), 5

p. 70-71: (Section 2.6) Problem 2(b,d), 3(a)

• Using the limit supremum defined in problem 2.4.7, prove the following statement: If \((x_n)\) is a bounded sequence, then \(\forall \epsilon > 0\), there exist infinitely many \(n \in \mathbb{N}\) for which \(x_n > (\lim \sup(x_n)) - \epsilon\).