Homework # 25 · Read pp. 122 - 133. · Statements and theorems from homework # 24, and statement of theorem 4.3.9, statements and proofs of thms 4.4.1 and 4.4.2; definition of uniform continuity (def 4.4.4). Do the following problems: 1. Use only the definition of continuity to show that if f; A - IR and g: A - IR are both continuous at $C \in A$, then $f \cdot g : A \rightarrow IK$ is also continuous at CEA 2. Negate the def. 4. 4. 4 of uniform continuity 3. Do # 4.3.3, 4.3.6. 4. Graduate problem: 4.3.11 a), b)