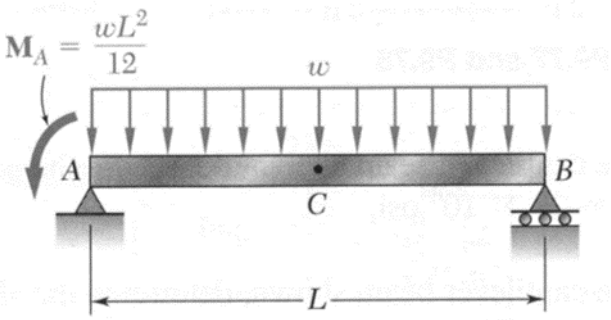
CME 260 – Mechanics of Materials
Exam #7 (04/17/2024)

StarID or TechID (no names) _____

Do one of the two problems shown below (the second problem is on the back).
Show your work (you will not receive any credit if all you have is a final answer, right or wrong).

1. For the beam below, determine the deflection at C. C is at the center of the beam (a distance of L/2 from both A and B). Your answer needs to be in terms of w, L, E, and I. Simplify your answer by using a common denominator, if applicable.



2. For the beam below, determine the deflection at B. Assume $M_o = wL^2/12$. Your answer needs to be in terms of w, L, E, and I. Simplify your answer by using a common denominator, if applicable.