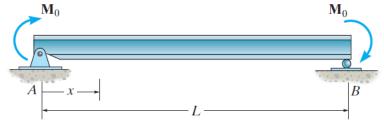
CME 260	Mechanics	of Materials
Exam #8 ((04/13/2022)	

Tech ID or Star ID:	
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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) Determine the equation of the elastic curve for the beam using the x coordinate. What is the slope at A and the deflection at the center of the beam? El is constant.



(2) Determine the equations of the elastic curve for the shaft using the x_1 and x_2 coordinates. What is the slope at A and the deflection at C? El is constant. The supports at A and B prevent translation of the shaft in the vertical direction but rotation can occur.

