

CE 325 Exam 2

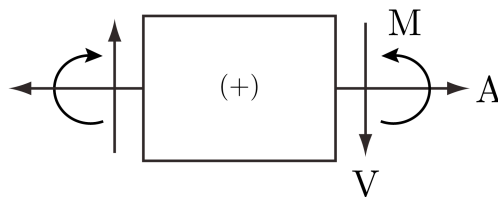
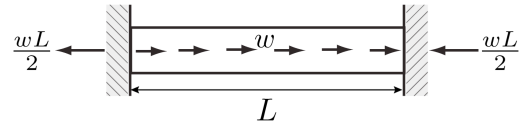
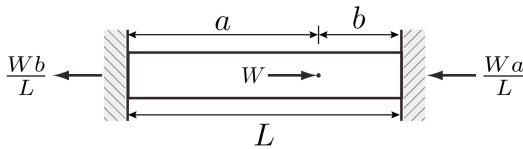
March 31, 2026

NCSU Honor Code: I have neither given nor received any unauthorized help on this exam.

Name: _____

Signature: _____

$$[k]_{uniaxial} = \frac{EA}{L} \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix} \quad [k]_{truss} = \frac{EA}{L} \begin{bmatrix} 1 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} \quad [T]_{truss} = \begin{bmatrix} c & s & 0 & 0 \\ -s & c & 0 & 0 \\ 0 & 0 & c & s \\ 0 & 0 & -s & c \end{bmatrix}$$



Positive forces/moments
(drawing diagrams)

You must show all work to get credit for a problem