

CONCORDIA UNIVERSITY  
Faculty of Engineering and Computer Science  
ENGR 242/4 Section J

Test #3

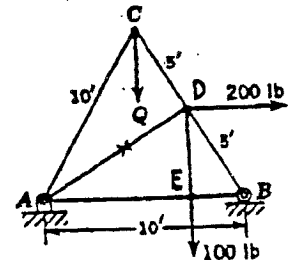
Please attempt all questions. Only calculators permitted

TIME: 60 minutes

MARKS

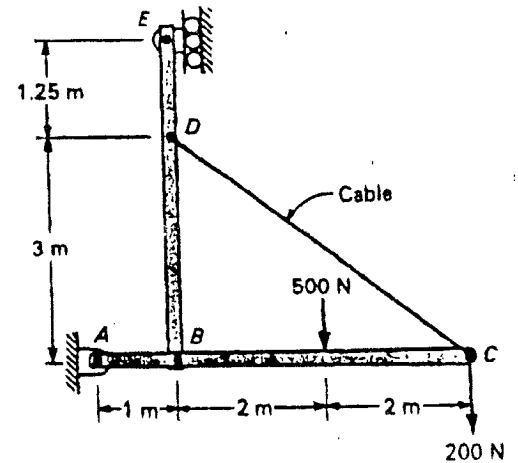
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- 1) If  $Q=100$  lb find the axial force of member AD of the truss shown. What is the axial force of the same member if  $Q=1000$  lb?



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- 2) Determine the components of the reaction of the pin at B on member ABC. Neglect the weights of the members.



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- 3) - For the beam and loading shown, draw the shear and bending moment diagrams.

