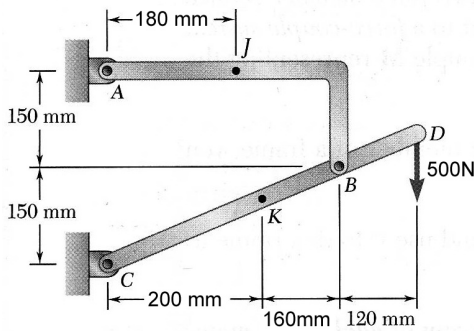
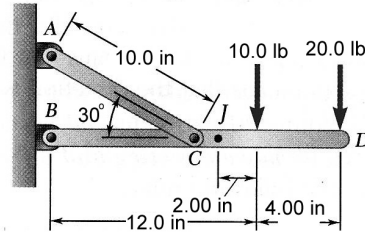
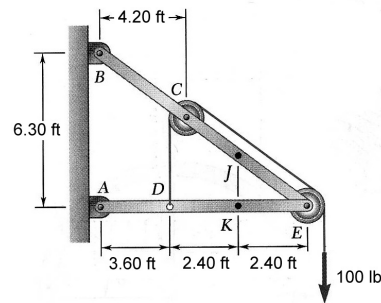


(1) Determine the internal forces (axial force, shearing force, and bending moment) at point J.

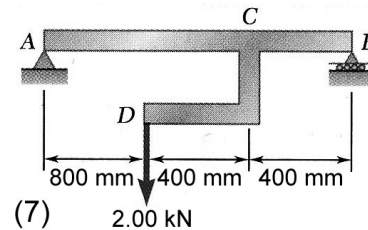
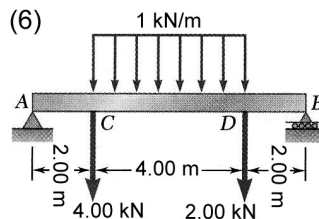
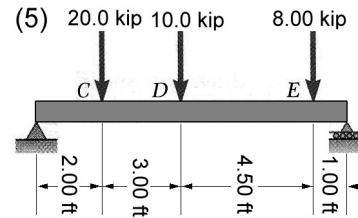
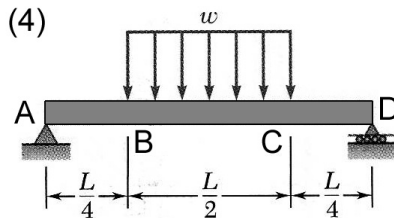


(2) Determine the internal forces at: (a) point J; (b) point K of the structure shown.



(3) If the radius of the pulleys are 7.2 in, determine the internal forces borne by the structure at: (a) J and (b) K.

(4,5) For the given beams and loading conditions, draw: (a) the shear and bending moment diagrams; and (b) determine the values of the maximum absolute value of both V and M (shear and bending moment).



(6,7) Determine the V and M diagrams for the beams and loading conditions shown. Include values for V, M at significant points within the V and M diagrams.