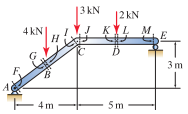
The structure shown consists of a single member $ABCDE$ with a pin support at A and a roller support at E. Points B and D are at the midpoints of their respective segments. Determine the internal forces acting on:



Problem 8.6 Cross sections F, G, H, and I, which are located immediately to the right of A, the left of B, the right of B, and the left of C, respectively.

Problem 8.7 Cross sections J, K, L, and M, which are located immediately to the right of C, the left of D, the right of D, and the left of E, respectively.

A beam with an overhang is subjected to the uniformly distributed load shown. Determine the shear and moment as functions of position, and draw the shear and moment diagrams.