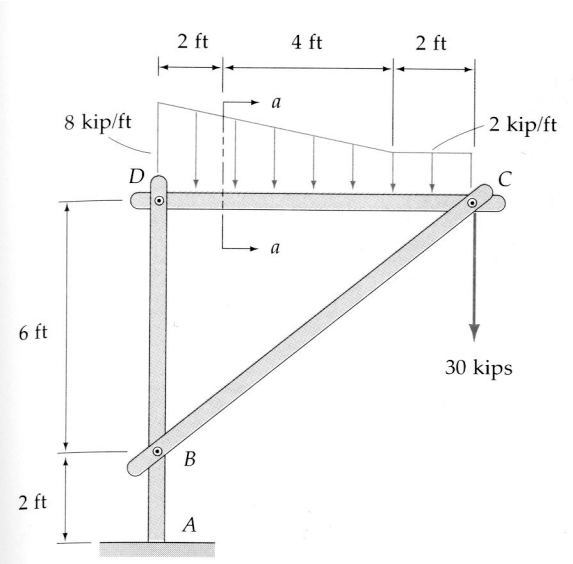
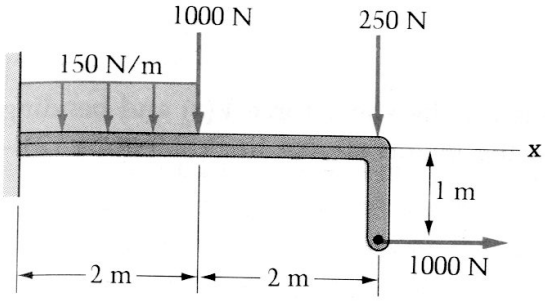
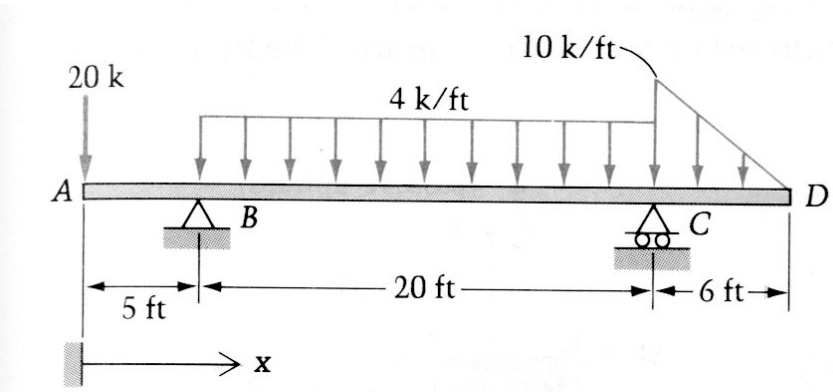
PHY 211 Statics HW 8



1. Find the internal axial and shear forces and internal moment in member *DC* at the section marked *a-a*. Recall that "kip" means kilo-pounds.

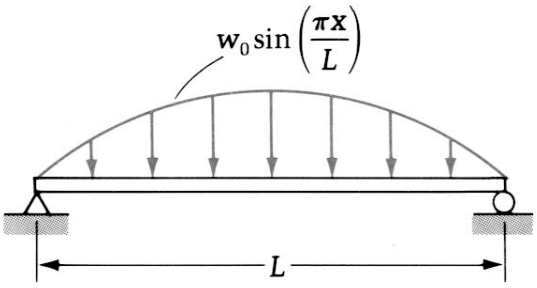


2. Sketch the graphs of the axial (N) and shear (V) forces and the bending moment (M) in the horizontal portion of the structure shown. Be sure to include all pertinent quantitative information (max values, zero crossings, etc) in your graphs. Show the work necessary to compute all those values. You may also include a graph of w(x) as well if you like.

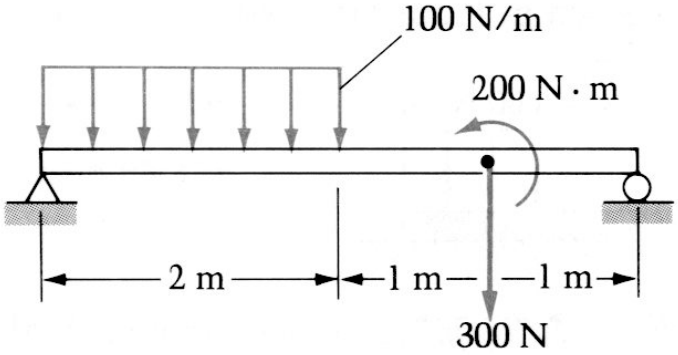


3. Draw complete graphs of w(x), V(x), and M(x) for the structure at left. Consider the mount at B to be a pin. "k" = kip

4. Draw complete w(x), V(x), and M(x) graphs for the structure at left.



5. Draw complete w(x), V(x), and M(x) graphs for the structure at left.



6. Draw complete w(x), V(x), and M(x) graphs for the structure at left.