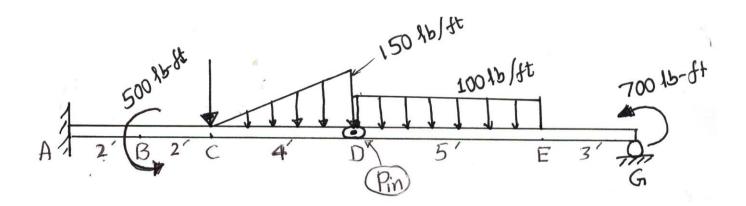
EAS 209A – Mechanics of Solids HW #5 Due Date: 06/12/2020

Note: Draw necessary Free-body diagrams for all problems

- Q.1) (a) Calculate the support reactions of the loaded beam shown below.
 - **(b)** Write shear-force and bending moment equations of the beam as a function of distant 'x' from the left-end of the beam for a section between points D and E.
 - **(c)** Sketch the shear-force and bending moment diagrams for the beam using the Graphical method. Label the values of shear-force and bending–moment at all key points.



- **Q.2) (a)** Calculate the support reactions of the loaded beam shown below.
 - **(b)** Write equations for w(x), V(x) and M(x) of the beam using singularity functions.
 - **(c)** Sketch the shear-force and bending moment diagrams for the beam for the beam using the Graphical method. Label the values of shear-force and bending—moment at all key points.

