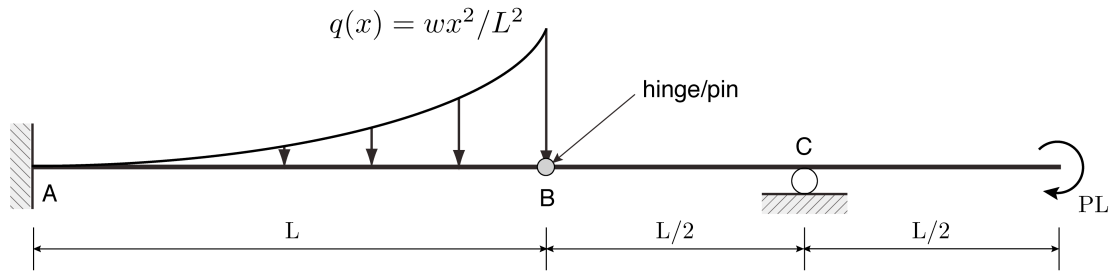


**CE 325 Spring 2026 HW#1**  
 Due Thursday, January 22, at the beginning of class

1. (5 pts) Calculate all of the external reactions in this determinate compound beam. Show your results on a free-body diagram (FBD) using arrows and symbolic values.



2. Given the planar truss below:

- a. (2 pts) Evaluate if structure is statically determinate.
- b. (2 pts) Identify zero force members (if any).

Calculate bar forces CD, CF, and FG using the following methods and give your results as unsigned numbers and label either tension (T) or compression (C).

- c. (3 pts) Method of Joints.
- d. (3 pts) Method of Sections.

