To do ...

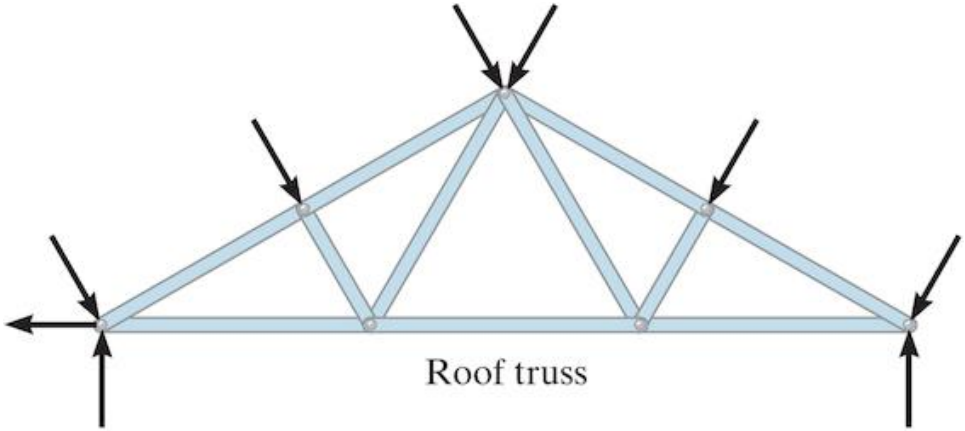
- CATME mid-course survey due **Fri**

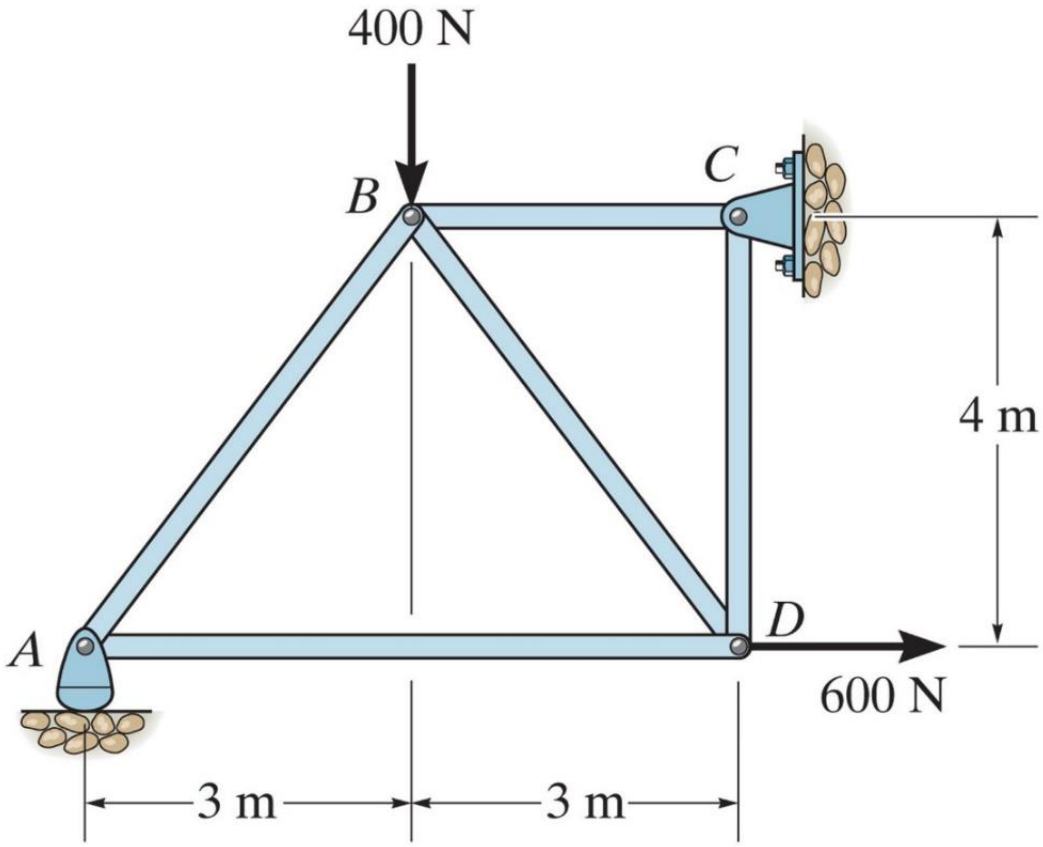
- HW 11 ME due **Sat**

- Sign up for Quiz #4 (CBTF)
- HW 12 PL due **Tues**
- HW 13 ME due **Thurs**
- WA #2 due **Fri**

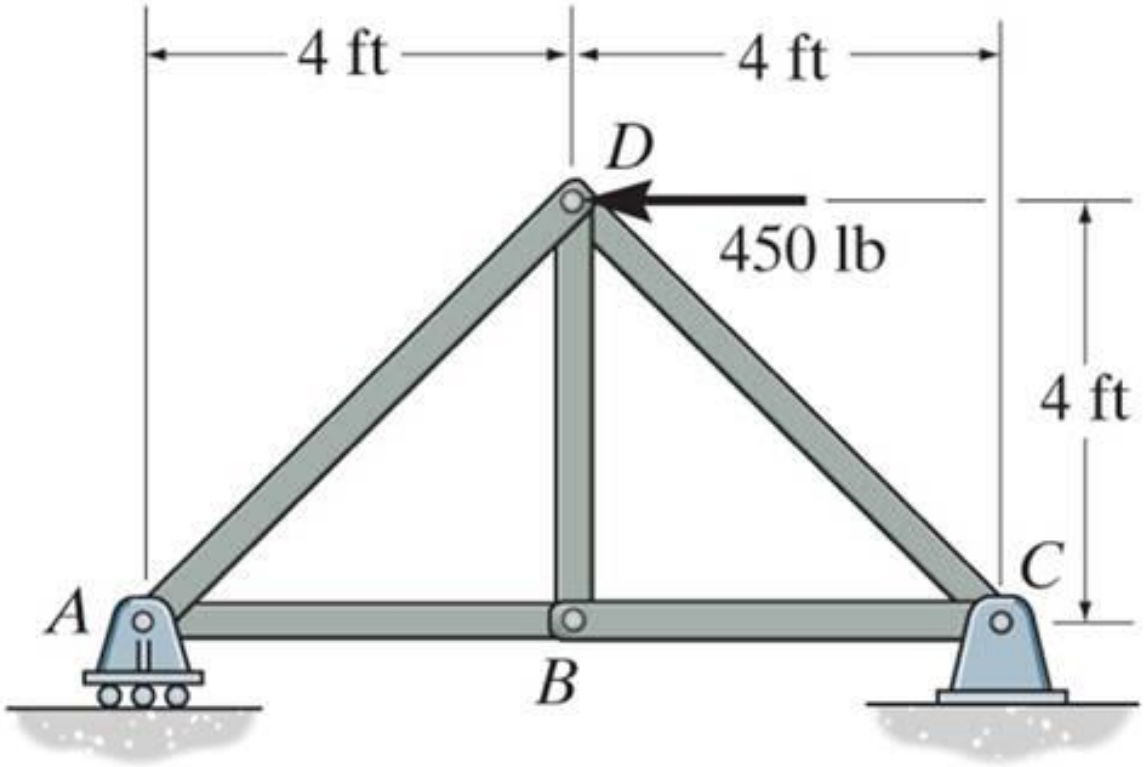
Recap

- Truss Analysis
  - Joint/pin method
  - Zero force member





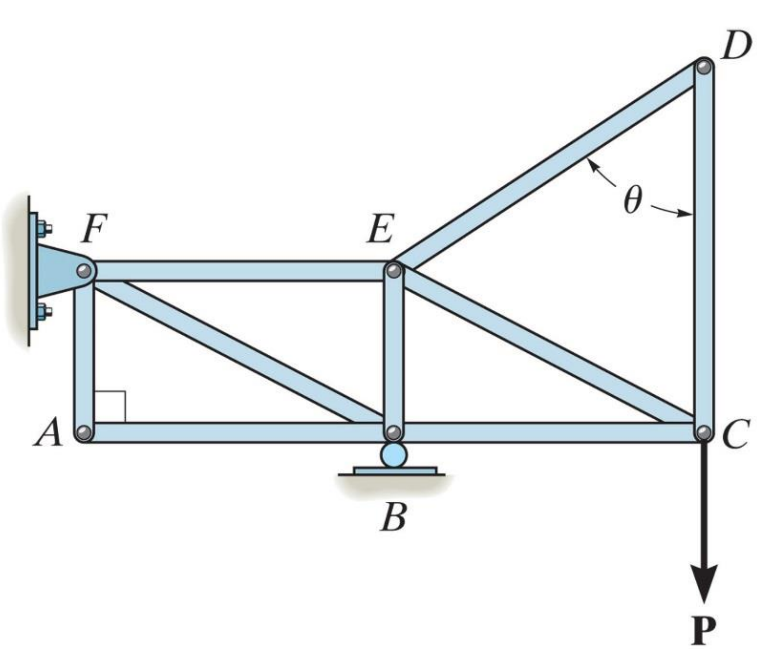
Find the forces in each member of the truss. Determine if members are in tension or compression.

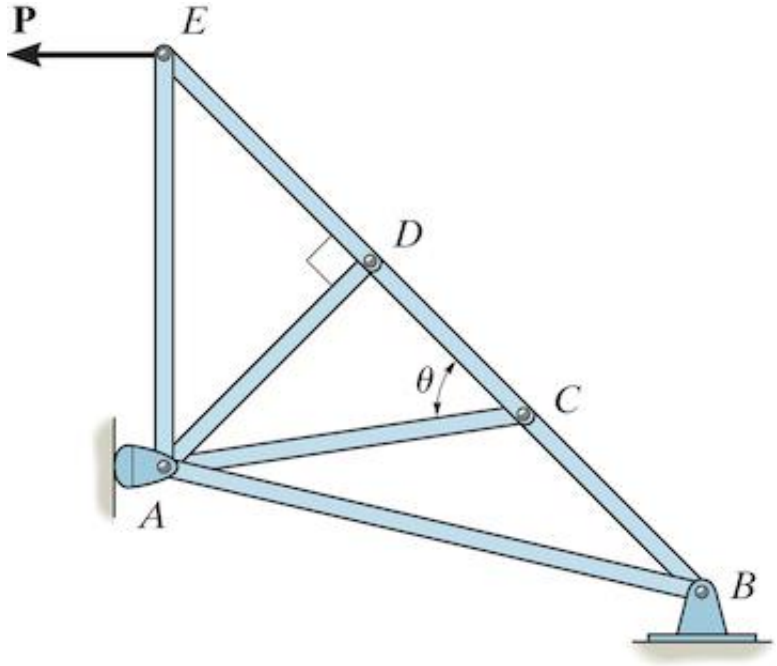


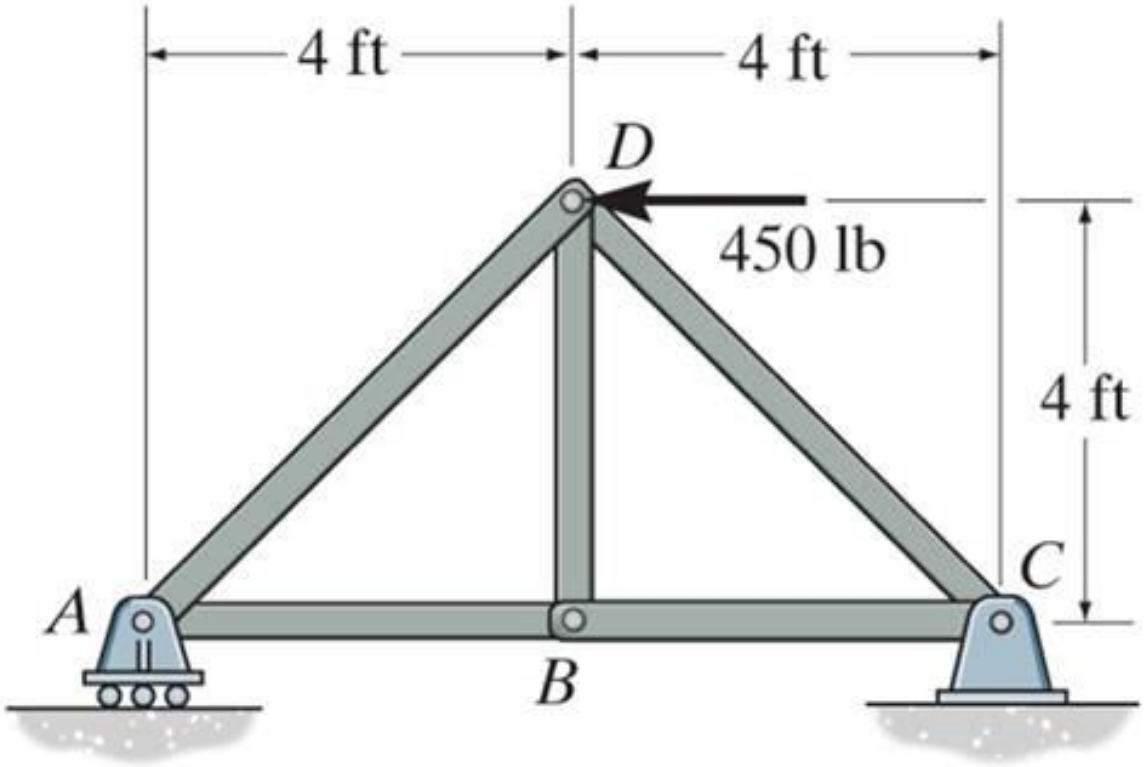
Find the forces in each member of the truss.

Zero-force members

- Particular members in a structure may experience no force for certain loads.
- Zero-force members are used to increase stability
- Identifying members with zero-force can expedite analysis.



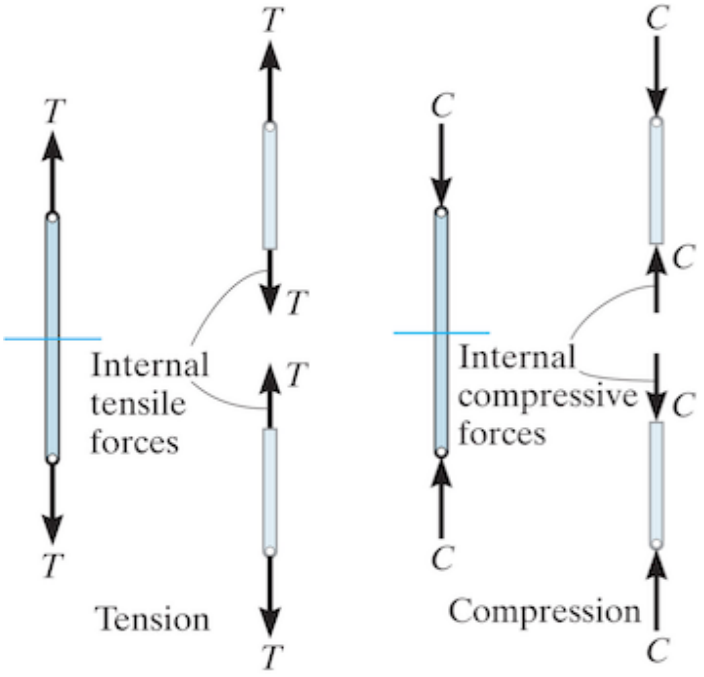


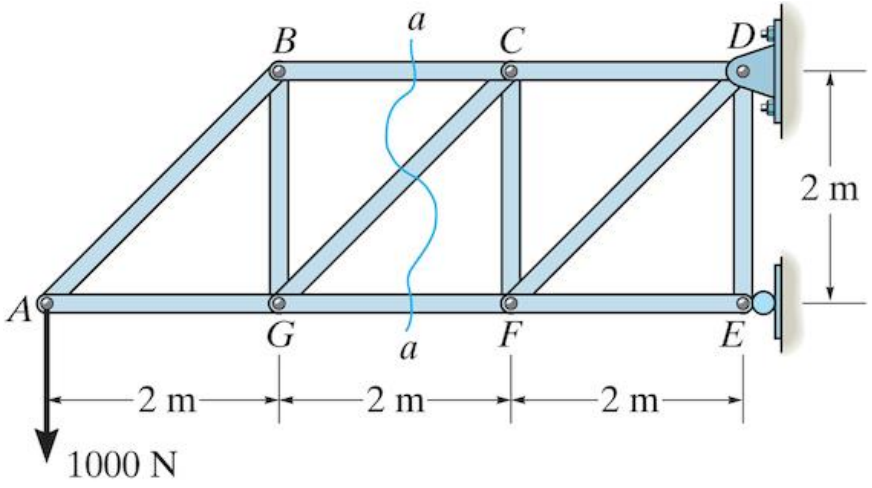


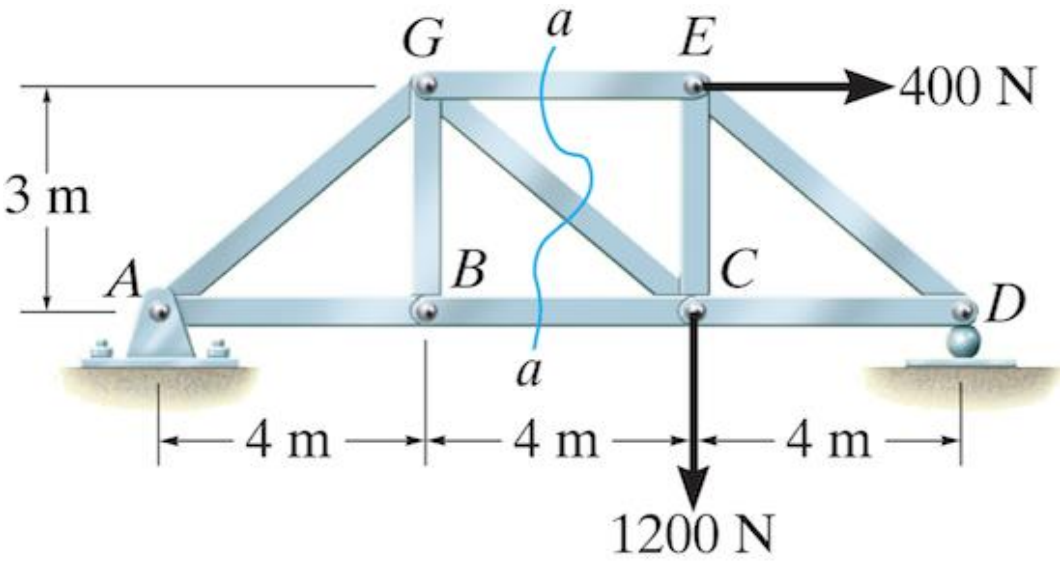
Find the forces in each member of the truss.

Method of sections

- Determine external support reactions
- "Cut" the structure at a section of interest into two separate pieces and set either part into force and moment equilibrium
- your cut should be such that you have up to three unknowns







Determine the force in member GC and GE of the truss and state if the members are in tension or compression.