To do ...

- Go to discussion – 8% of your grade!
- Check your grades on compass $(-- \neq 0)$
- Sign up for Quiz 4 (CBTF next week)

- HW 13 ME due **Thurs**
- WA 2 due **Fri**
  - **Read instructions!!**

Frames and machines

Frames and machines are two common types of structures that have at least **one multi-force member** (Recall that trusses have nothing but two-force members).

Frames are generally **stationary** and used to support various external loads.

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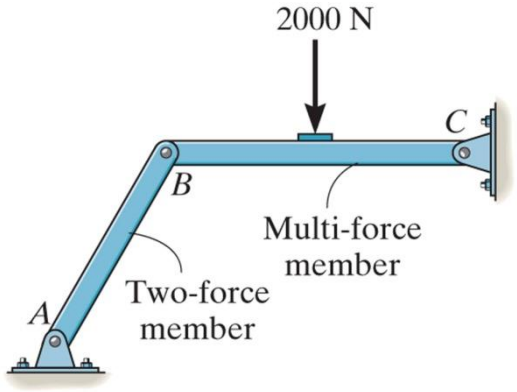
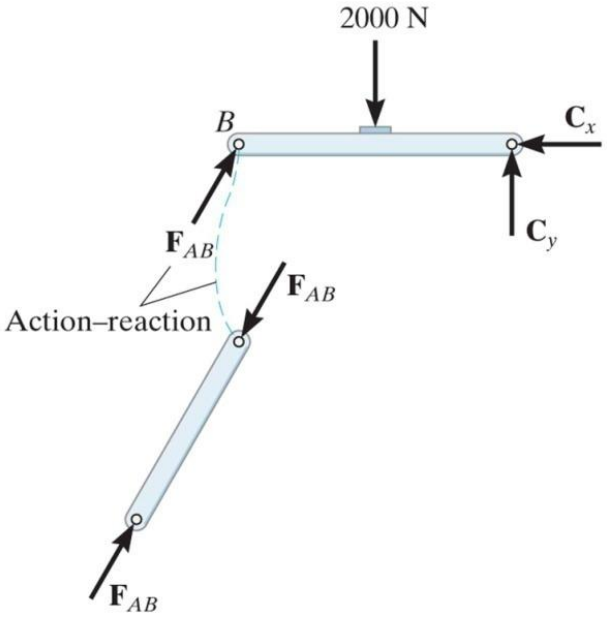
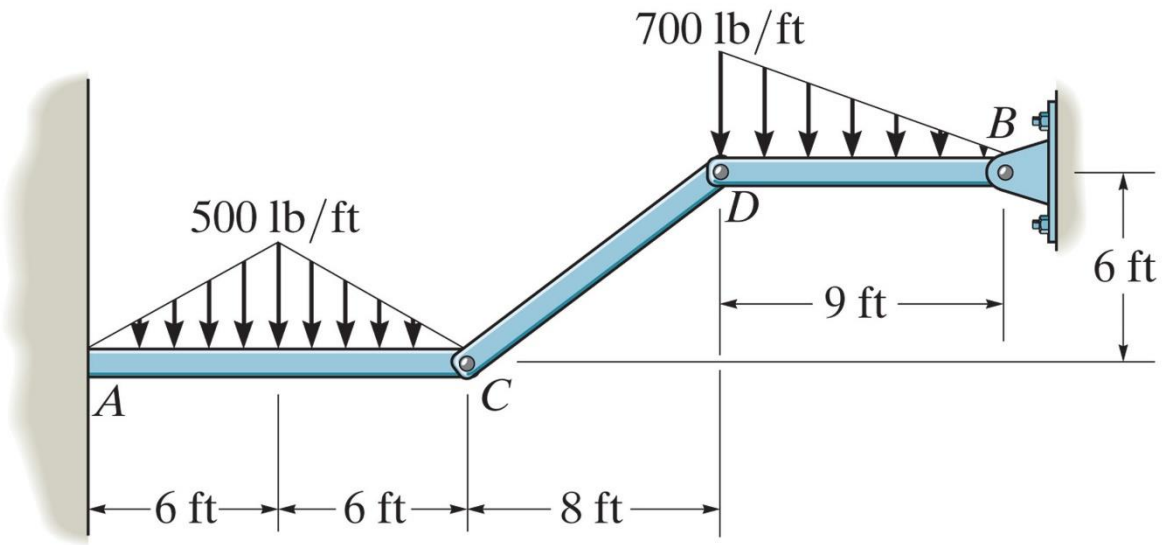
Machines contain **moving parts** and are designed to alter the effect of forces

Frames and machines

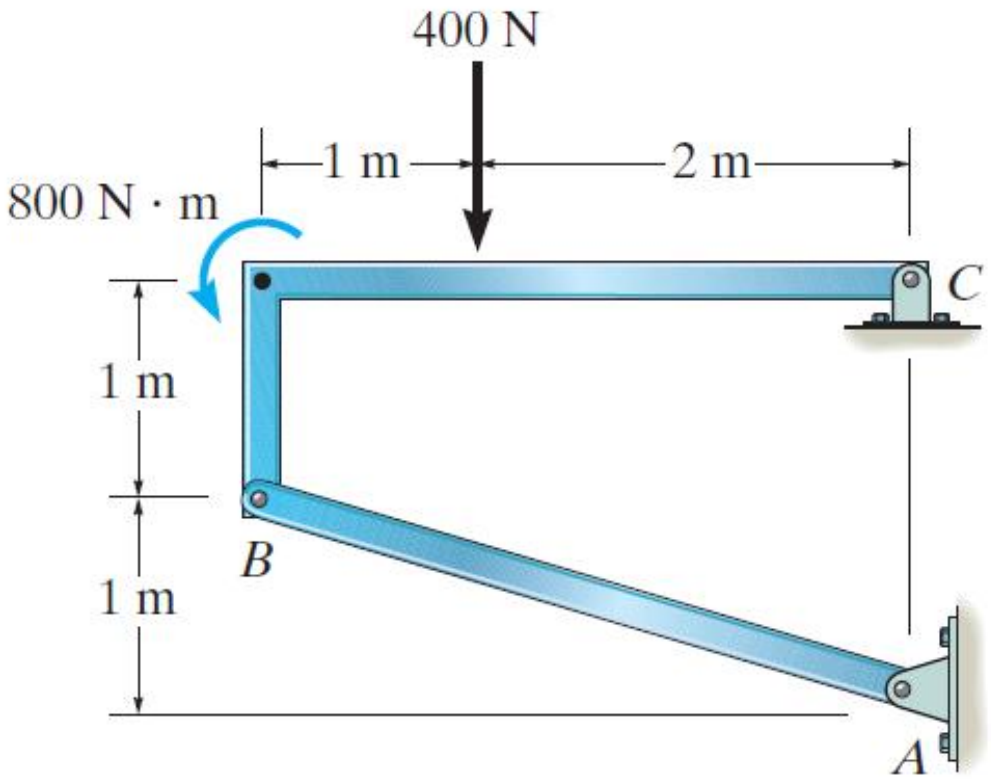
The members can be truss elements, beams, pulleys, cables, and other components. The general solution method is the same:







Determine the reactions at supports A and B.



Find the horizontal and vertical components of the pin reactions at C and the magnitude of reaction at B.