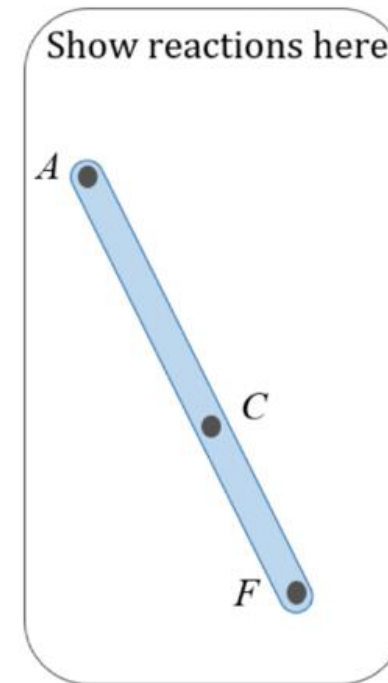
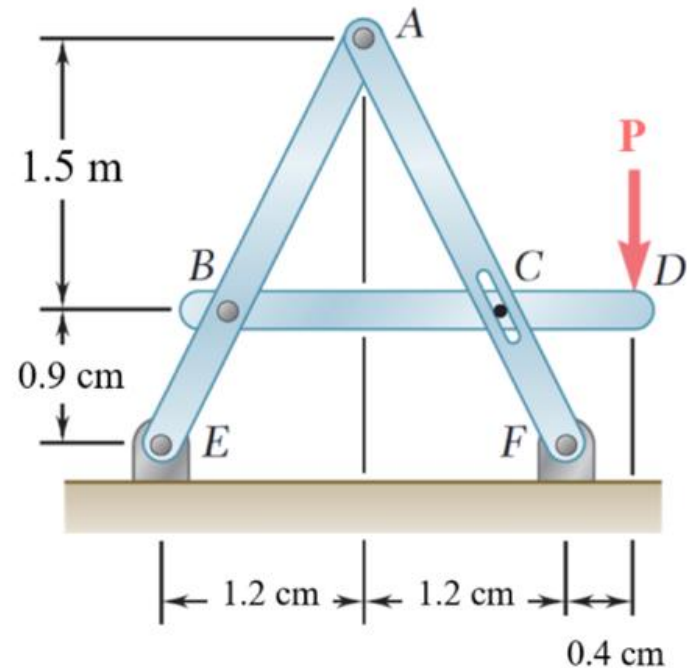


- Frame

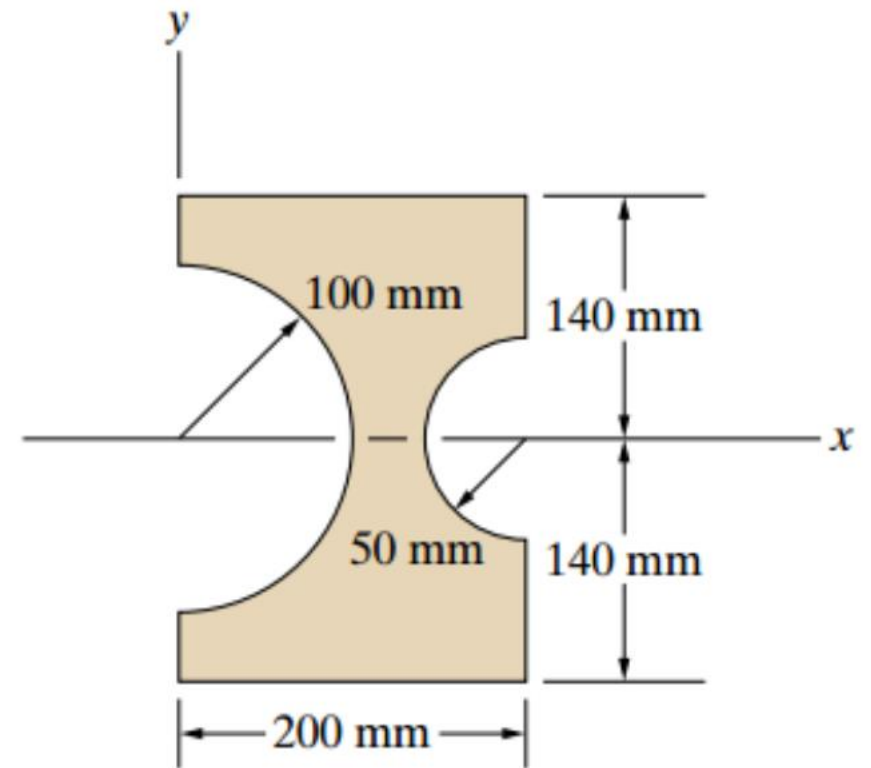
- **Problem 1** For the frame shown, determine the components of reactions acting on member FCA for $P = 26 \text{ kN}$. (15 points)

Note: The connection at C is a pin in slot. Components of forces (reactions) acting on FCA should be drawn and labeled as indicated in the box.



- Centroids

- Problem 1 Determine the coordinates of the centroid of the area.



Problem 3 (10 points)

Determine the force in members DC , HI , and JI of the truss. State if the members are in tension or compression.

