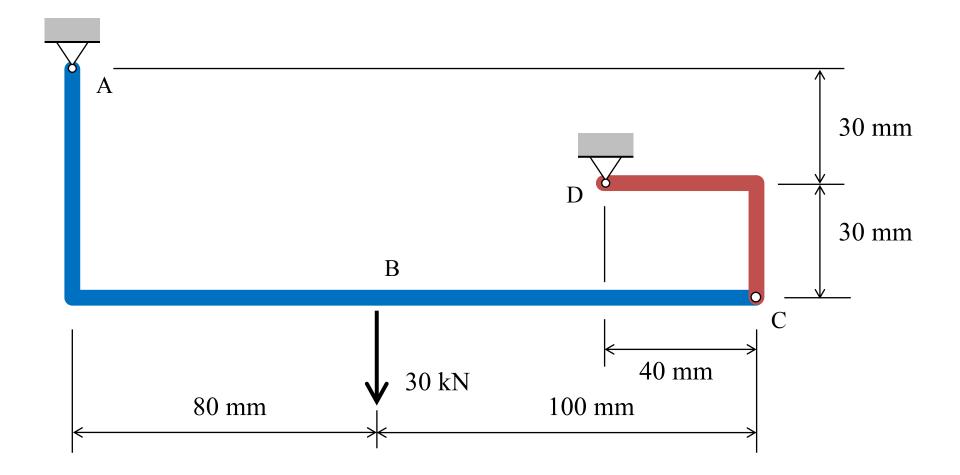
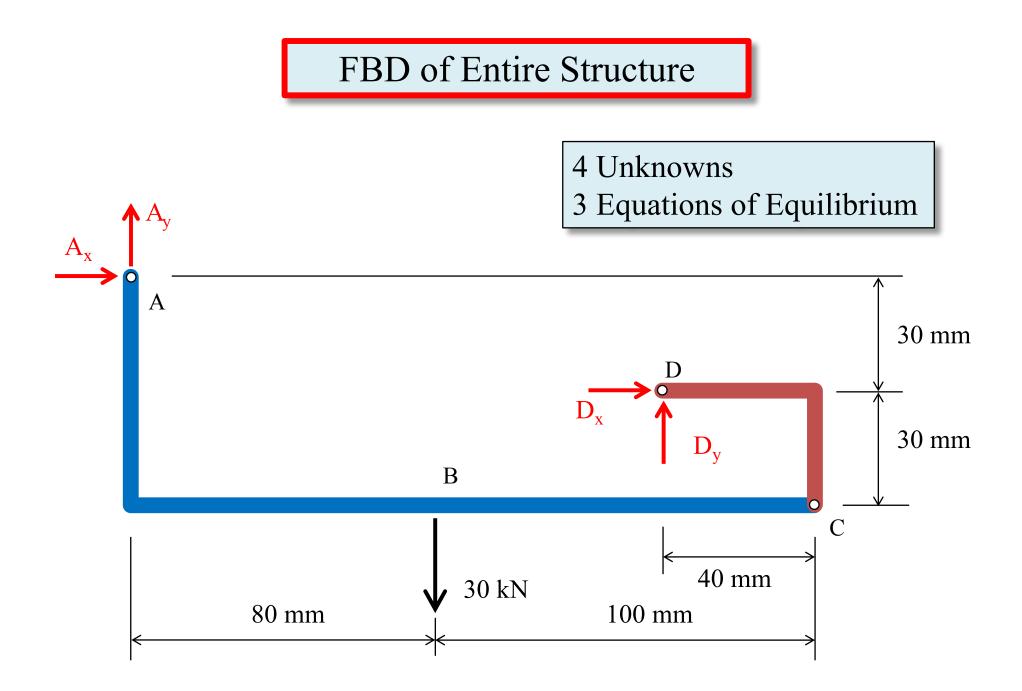
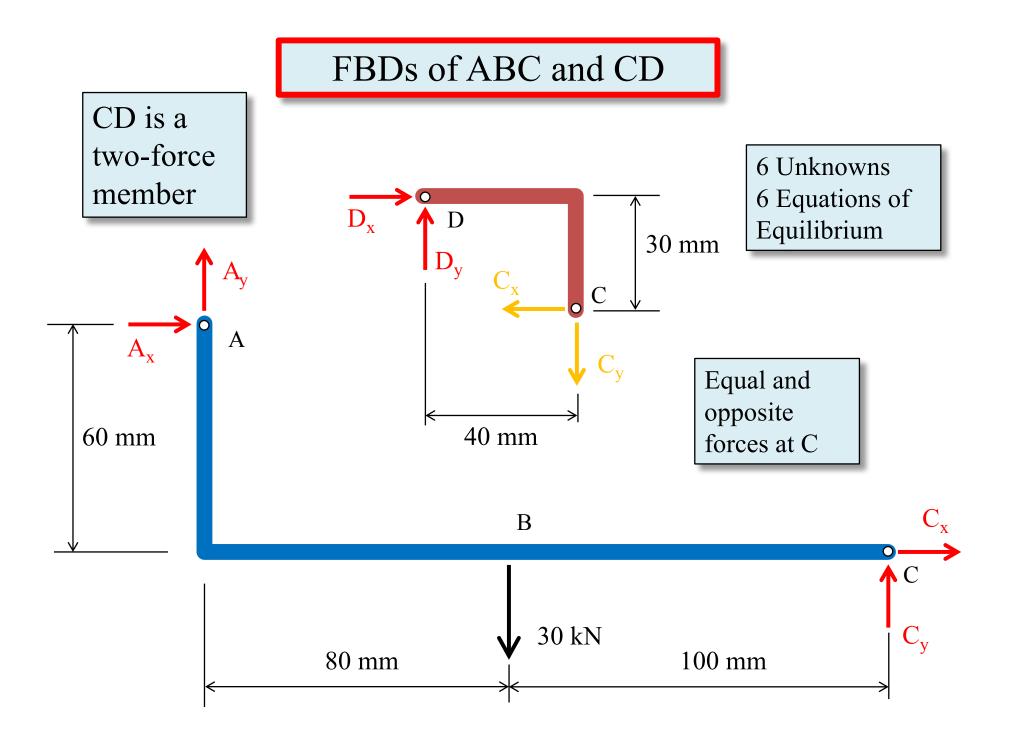
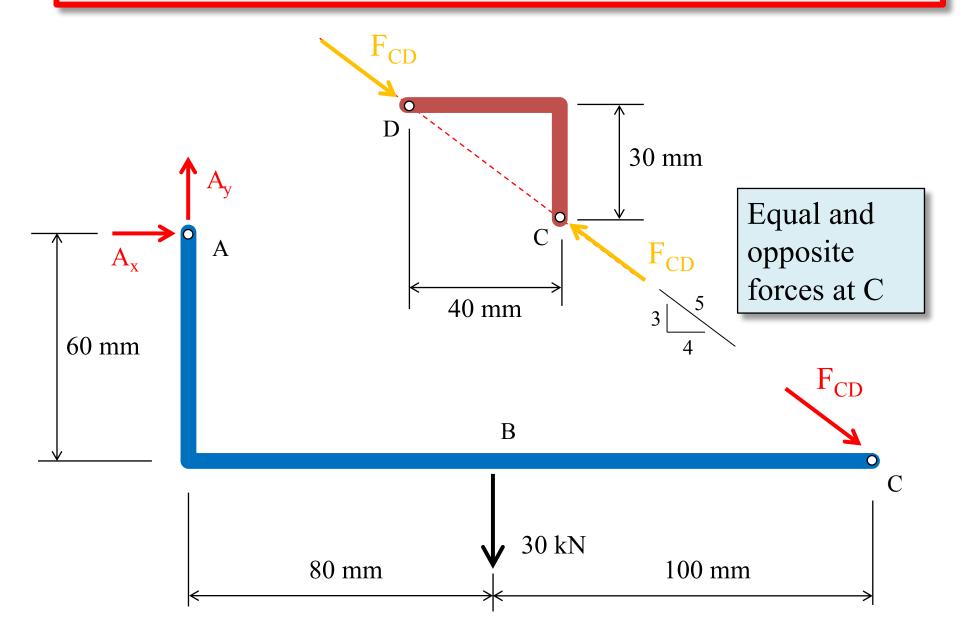
Two-Force and Three-Force Member Example Steven Vukazich San Jose State University The structure shown is pin supported at points A and D. Members ABC and CD are connected by an internal hinge at point C. For the loading shown, find the reaction forces at the pin supports at at points A and D. The weight of the members is negligible.

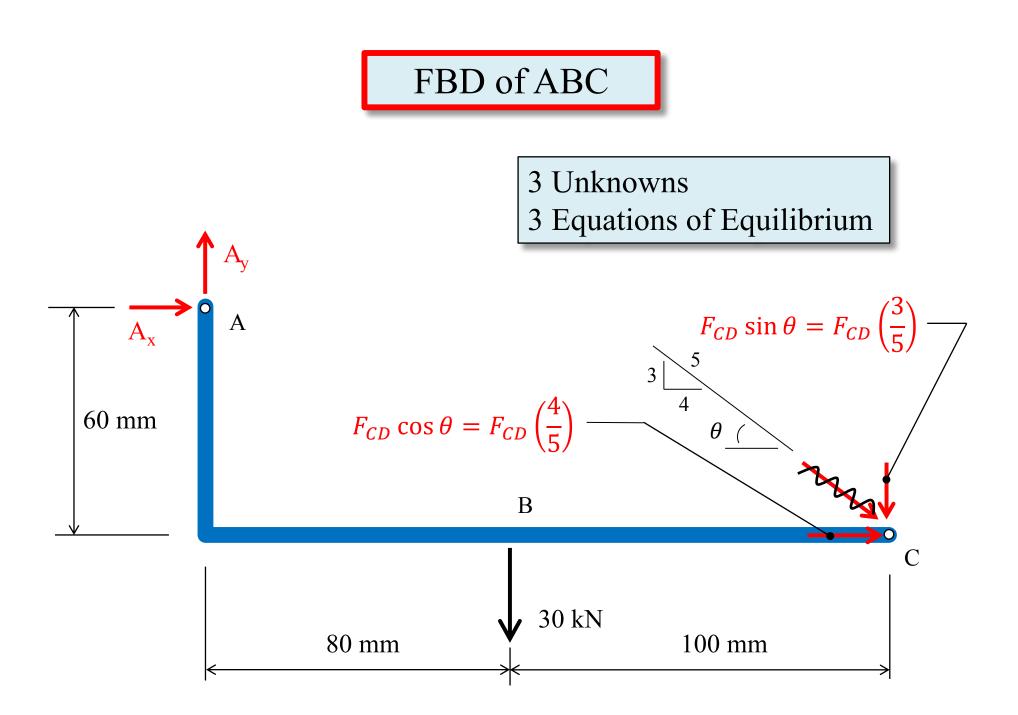


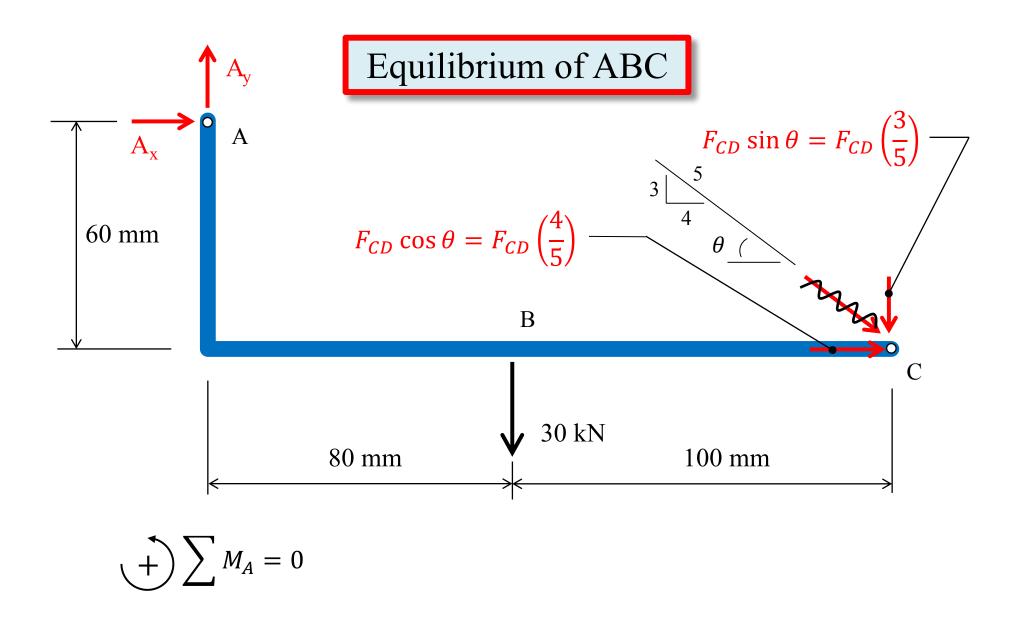




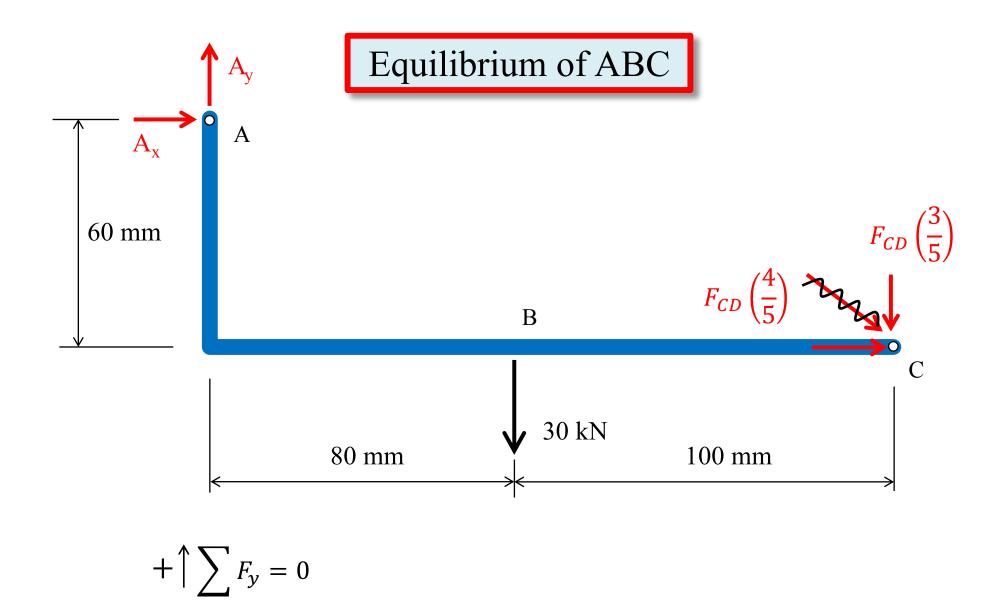
FBDs of ABC and CD recognizing that CD is a two-force member



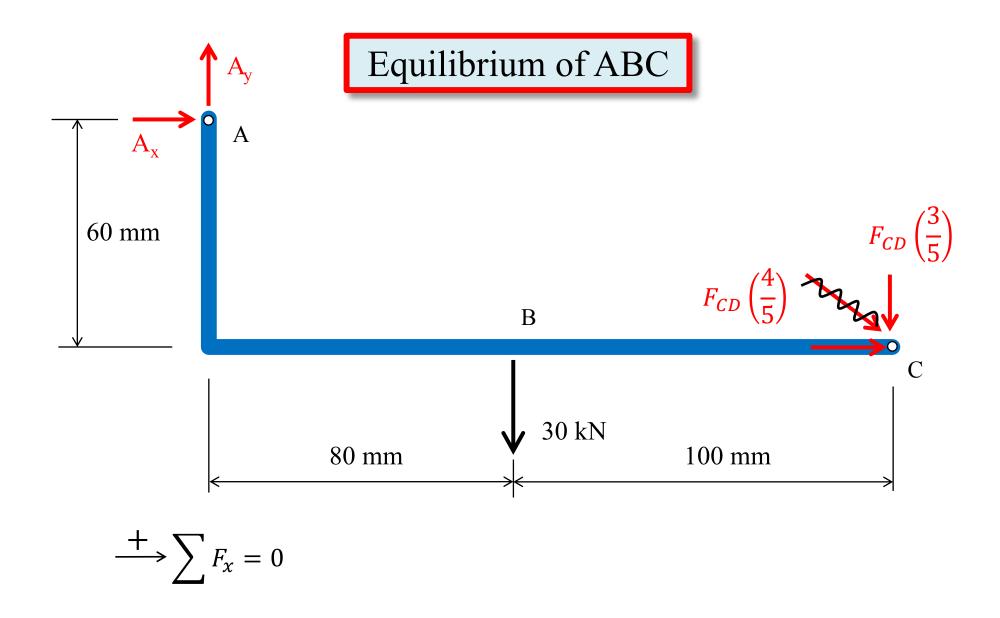




 $F_{CD} = -40 \text{ kN}$

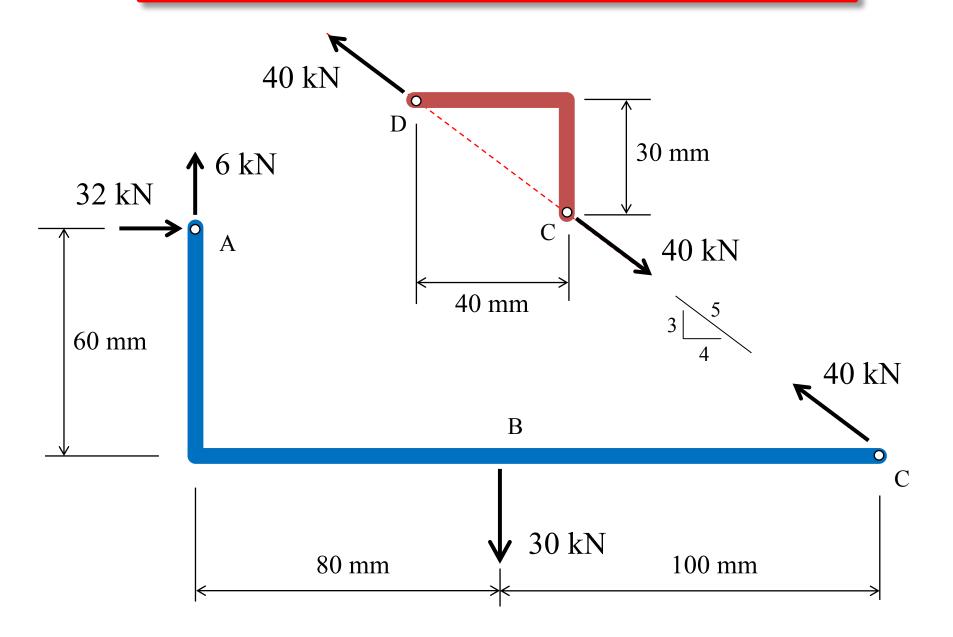


 $A_y = 6 \text{ kN}$



 $A_x = 32 \text{ kN}$

Show results on a FBDs of ABC and CD



ABC is a Three-Force Member

