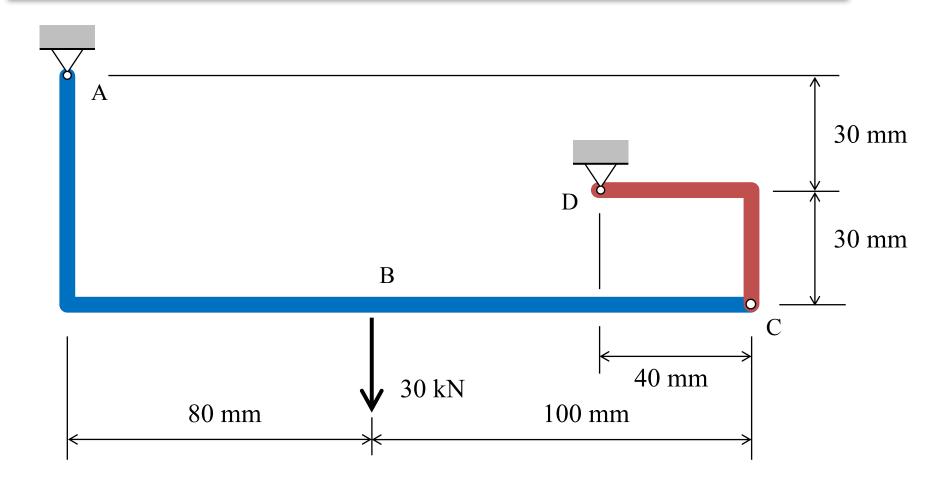
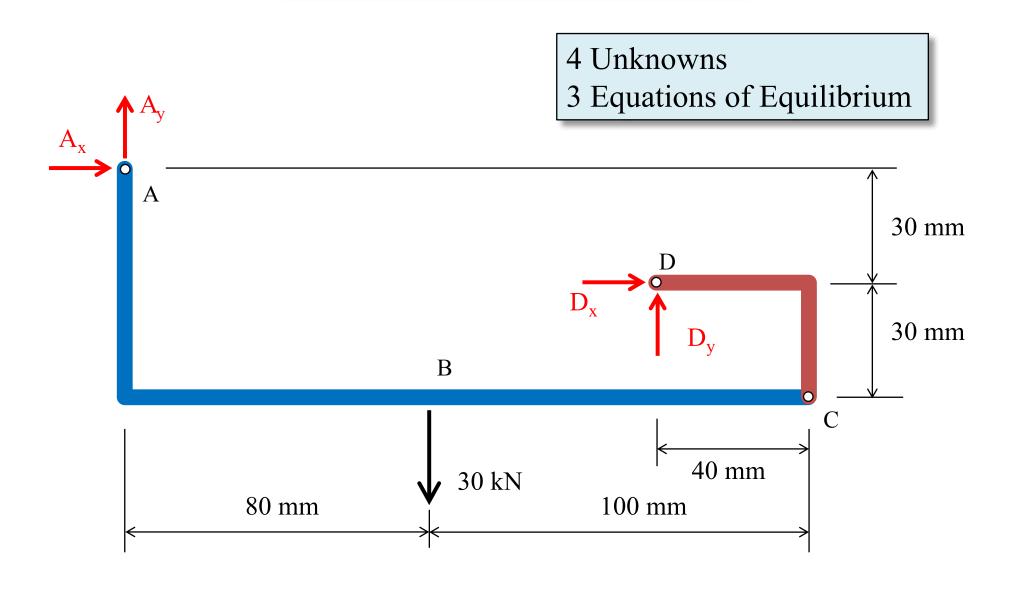
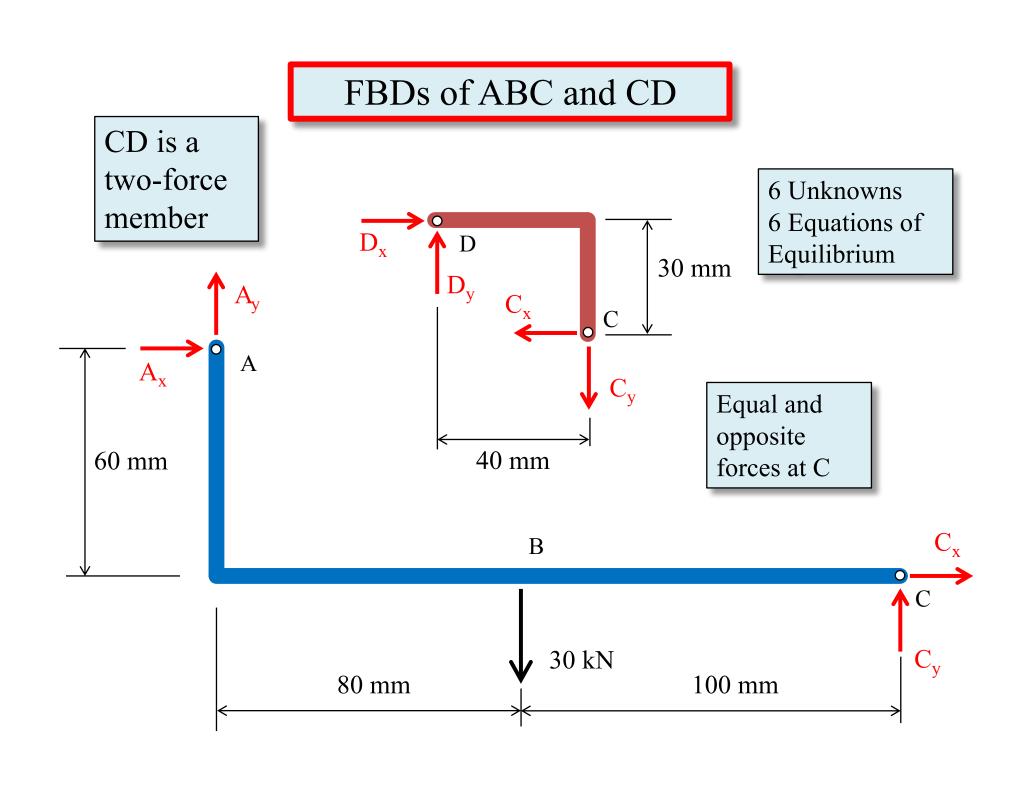
Two-Force and Three-Force Member Example Steven Vukazich San Jose State University

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.

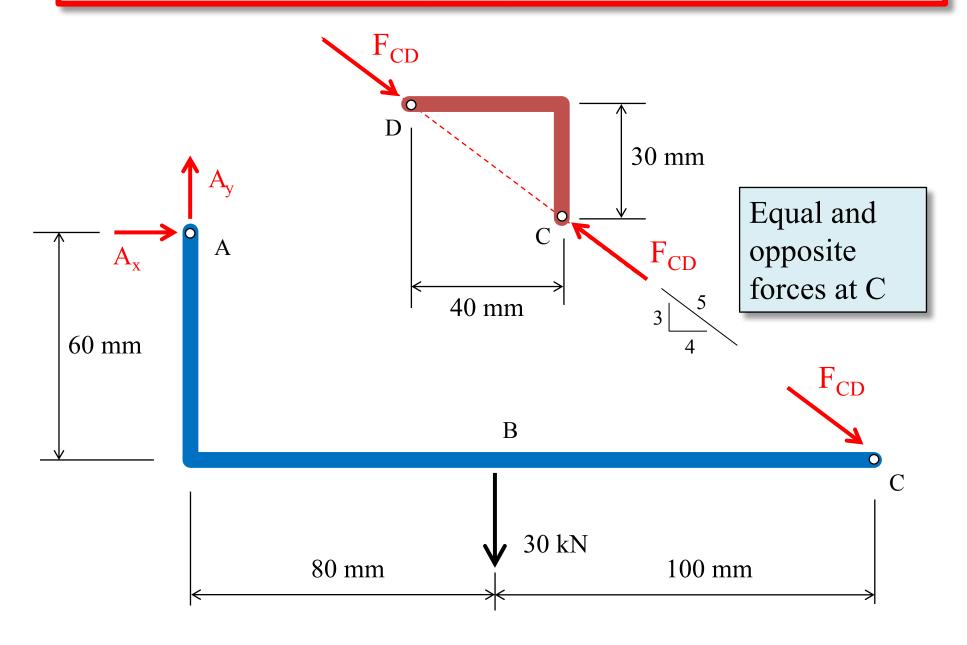


FBD of Entire Structure

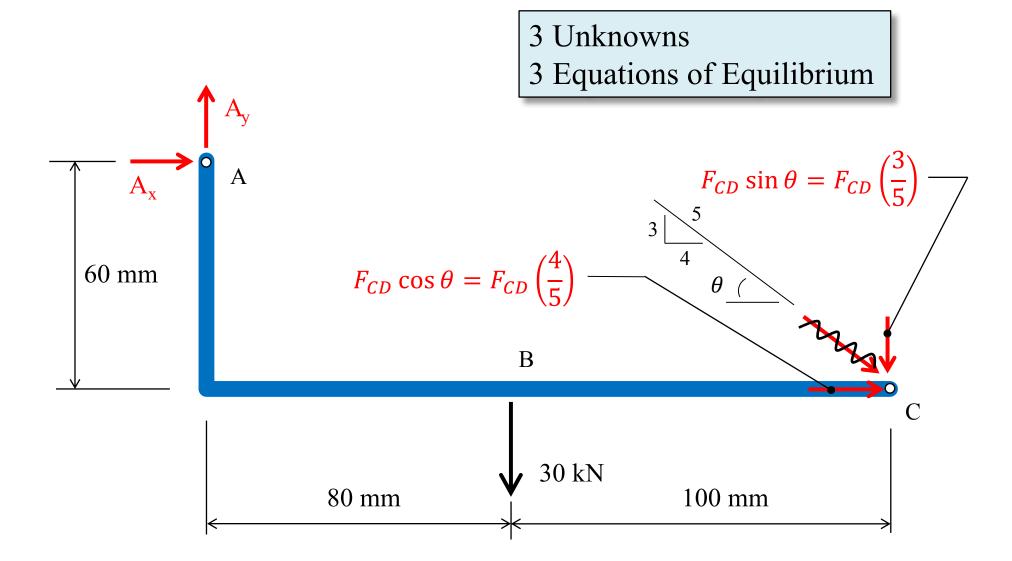


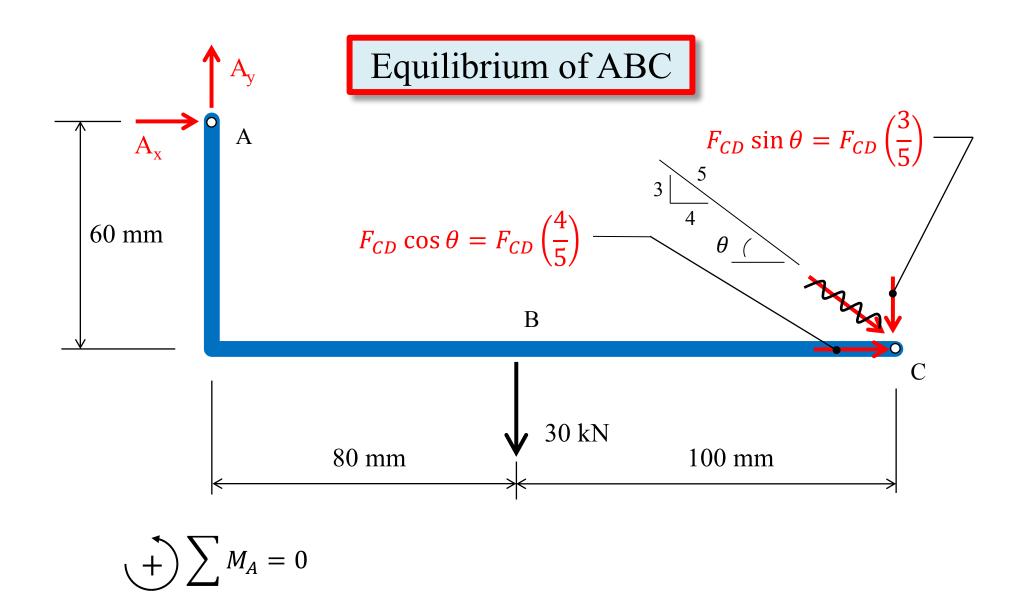


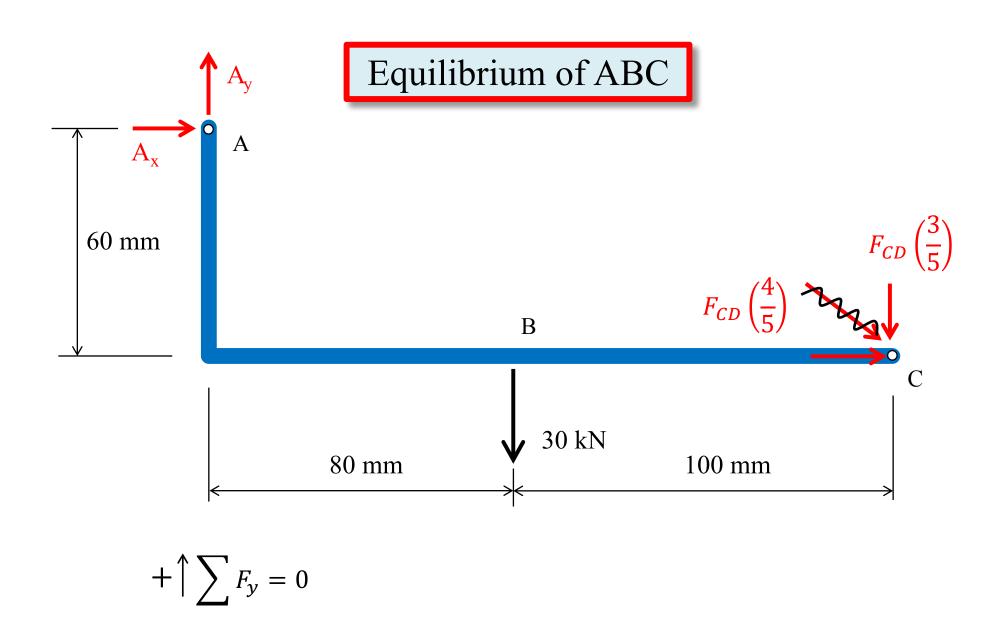
FBDs of ABC and CD recognizing that CD is a two-force member

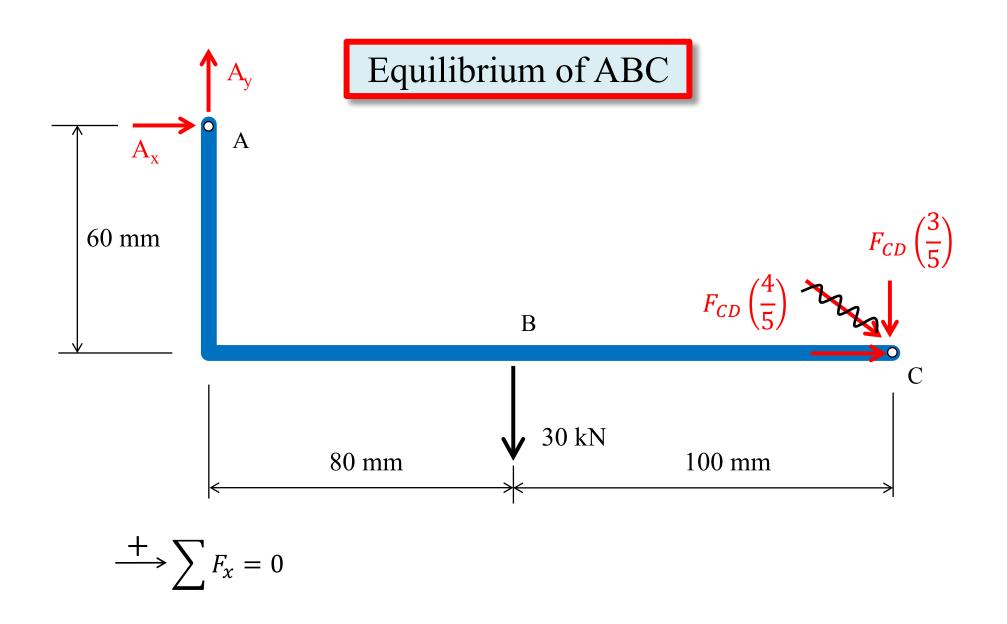


FBD of ABC

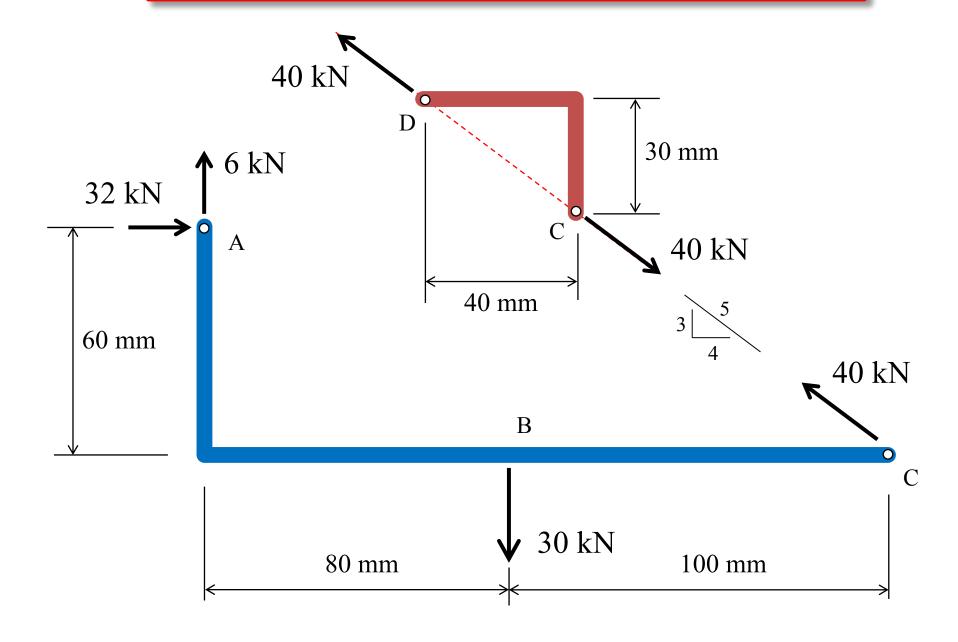








Show results on a FBDs of ABC and CD



ABC is a Three-Force Member

