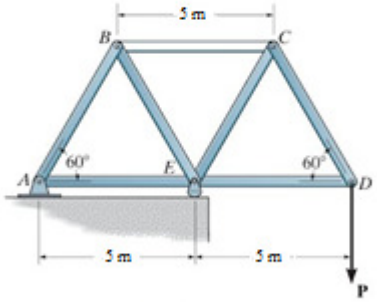
Homework #3

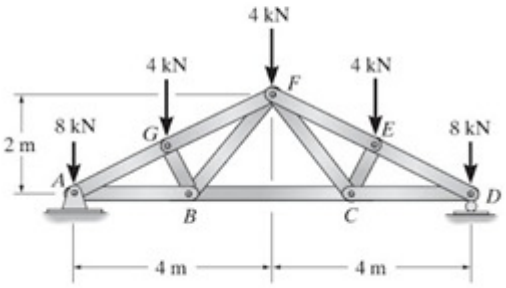
Note: Draw free body diagrams for each problem and show all work

Chapter 3 Problems

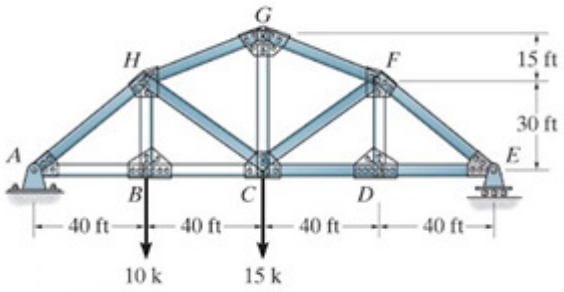
P1 If the maximum force that any member can support is 9 kN in tension and 7 kN in compression, determine the maximum force P that can be supported at joint D.



P2 Determine the force in each member of the truss. State if the members are in tension or compression. Assume all members are pin connected. $AG = GF = FE = ED$.



P3 Determine the force in members GF, FC, and CD of the bridge truss. State if the members are in tension or compression. Assume all members are pin connected.



P4 Determine the force in members IH, ID, and CD of the truss. State if the members are in tension or compression. Assume all members are pin connected.