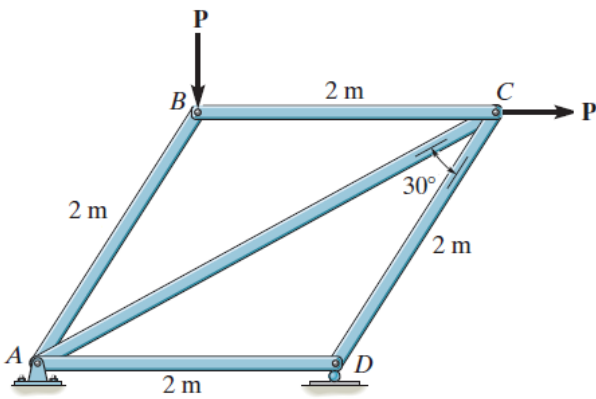
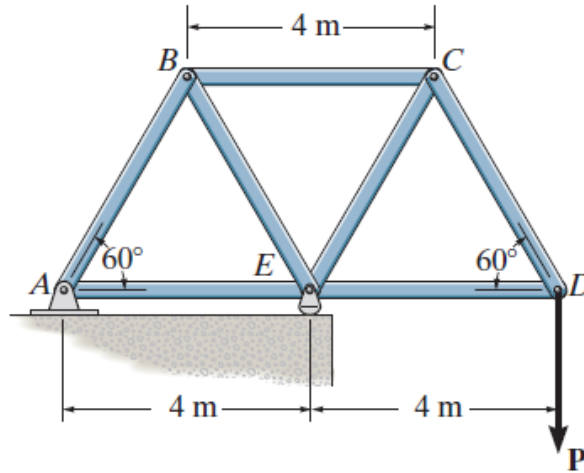


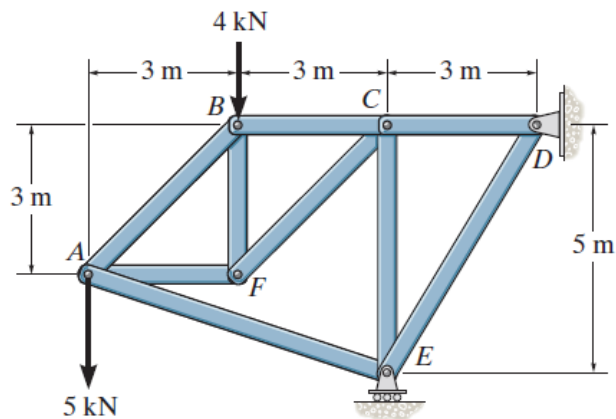


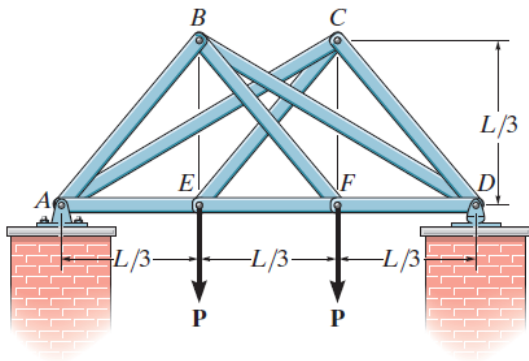
1. If the maximum force that any member can support is 8 kN in tension and 6 kN in compression, determine the maximum force  $P$  that can be supported at joint  $D$ .



2. The maximum allowable tensile force in the members of the truss is  $(F_t)_{\max} = 2$  kN, and the maximum allowable compressive force is  $(F_c)_{\max} = 1.2$  kN. Determine the maximum magnitude  $P$  of the two loads that can be applied to the truss.

3. Determine the force in each member of the truss and state if the members are in tension or compression.





- Determine the force in each member of the double scissor truss in terms of the load  $P$  and state if the members are in tension or compression.

- Determine the force in each member of the truss and state if the members are in tension or compression.  
Set  $P_1 = 10 \text{ kN}$ ,  $P_2 = 15 \text{ kN}$ .

