

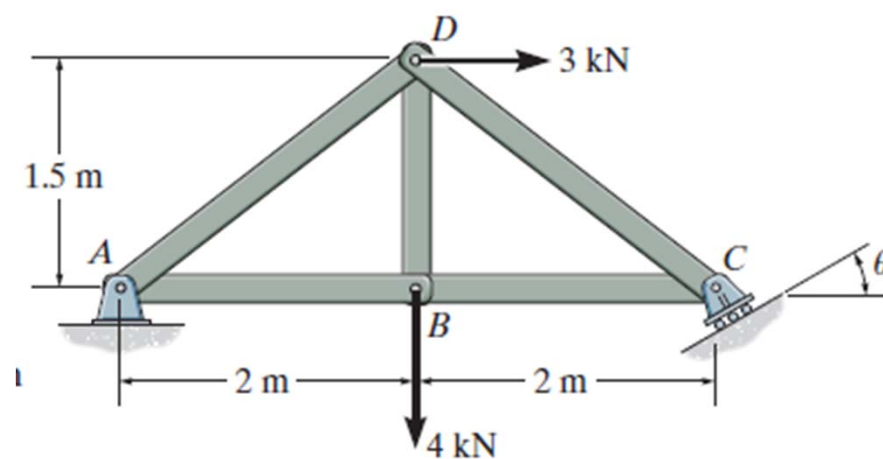
# Chapter 6

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- Method of Joints and Method of Sections for Truss Analysis

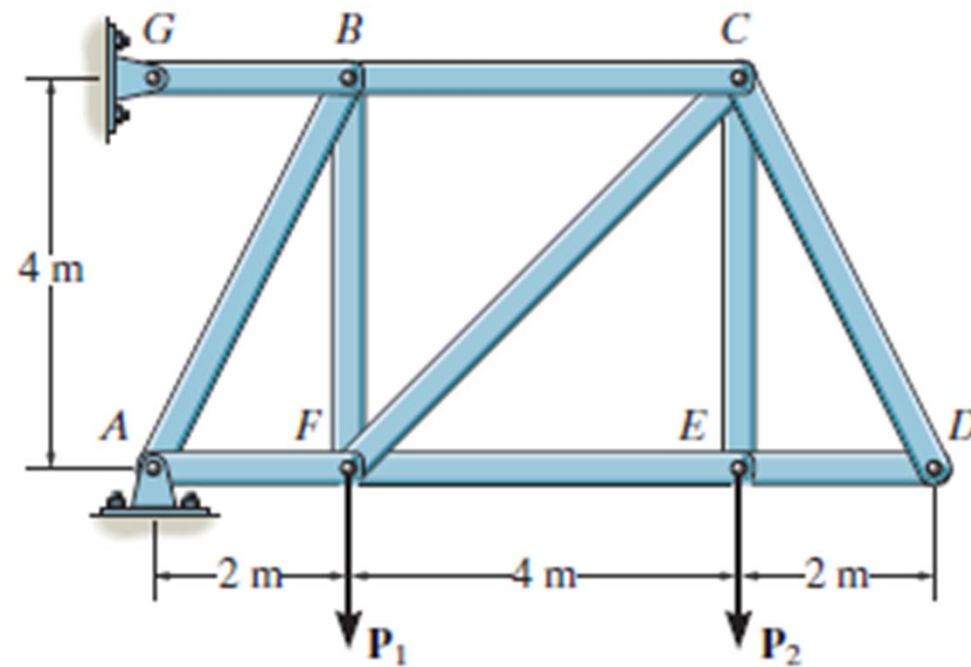
1.

Determine the force in each member of the truss, and state if the members are in tension or compression. Set  $\theta = 0^\circ$ .



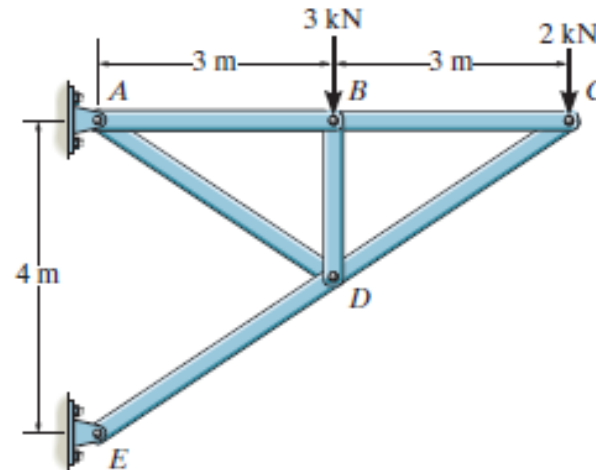
2.

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



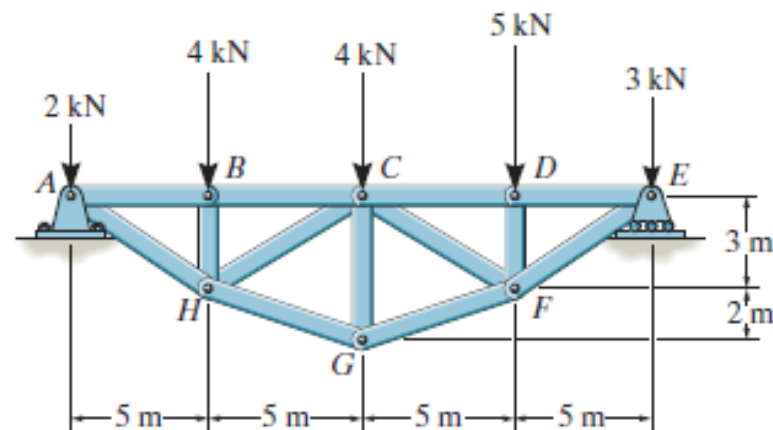
3.

Determine the force in each member of the truss and state if the members are in tension or compression. *Hint: The resultant force at the pin  $E$  acts along member  $ED$ . Why?*



4.

Determine the force in members  $BC$ ,  $HC$ , and  $HG$ . After the truss is sectioned use a single equation of equilibrium for the calculation of each force. State if these members are in tension or compression.



5.

Determine the force in members  $FG$ ,  $GC$  and  $CB$  of the truss used to support the sign, and state if the members are in tension or compression.

