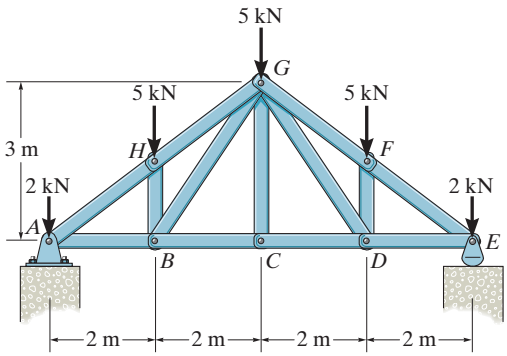
PROBLEMS

All solutions must include a free-body diagram.

6–27. The *Howe truss* is subjected to the loading shown. Determine the force in members *GF*, *CD*, and *GC*, and state if the members are in tension or compression.

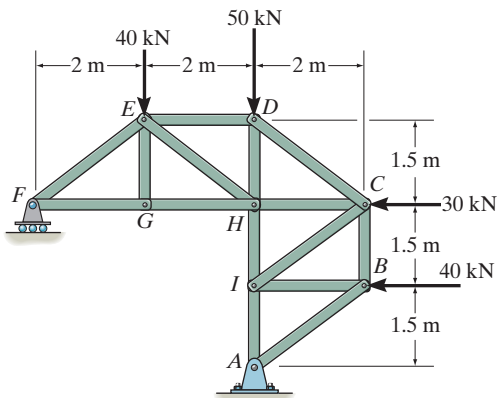
***6–28.** The *Howe truss* is subjected to the loading shown. Determine the force in members *GH*, *BC*, and *BG* of the truss and state if the members are in tension or compression.



Probs. 6–27/28

6–29. Determine the force in members *DC*, *HC*, and *HI* of the truss and state if the members are in tension or compression.

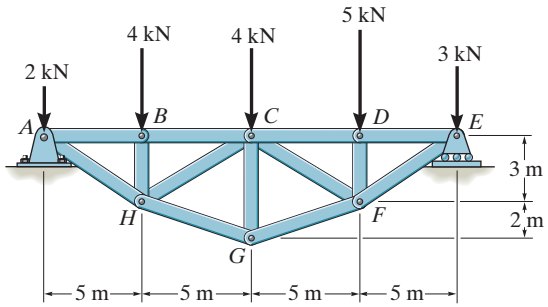
6–30. Determine the force in members *ED*, *EH*, and *GH* of the truss and state if the members are in tension or compression.



Probs. 6–29/30

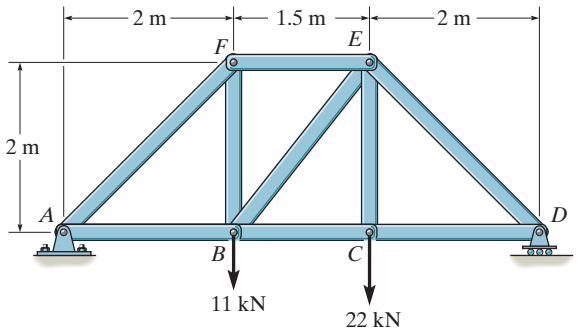
6–31. Determine the force in members *BC*, *HC*, and *HG*. After the truss is sectioned use a single equation of equilibrium for the calculation of each force. State if these members are in tension or compression.

***6–32.** Determine the force in members *CD*, *CF*, and *CG* and state if these members are in tension or compression.



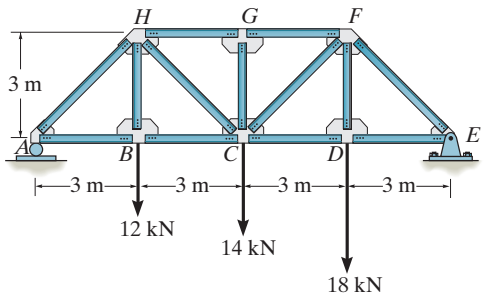
Probs. 6–31/32

6–33. Determine the force developed in members *FE*, *EB*, and *BC* of the truss and state if these members are in tension or compression.



Prob. 6–33

6–34. Determine the force in members *BC*, *HC*, and *HG* of the bridge truss and state if the members are in tension or compression.



Prob. 6–34