

NOTE: Only problems 6.51 and 6.58 will be marked.

Problem 1 (Problem 6.20)

Determine the force in member FG and in each of the members located to the right of FG for the scissors roof truss shown. State whether each member is in tension or compression.

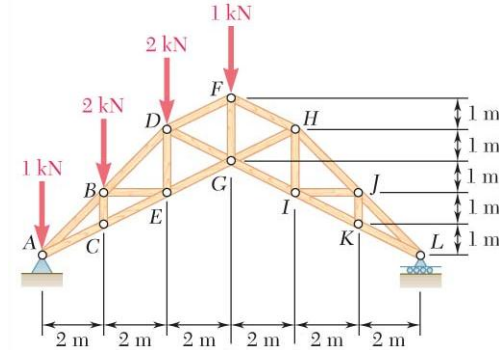
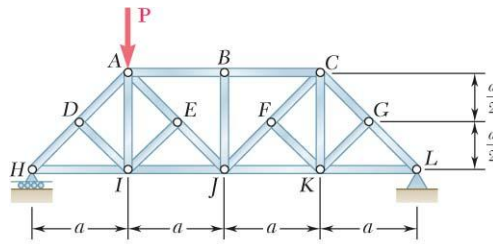


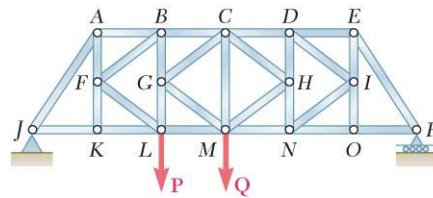
Fig. 1

Problem 2 (Problem 6.32)

For the given loading, determine the zero-force members in each of the two trusses shown.



(a)



(b)

Fig. 2

Problem 3 (Problem 6.51)

A Howe scissors roof truss is loaded as shown. Determine the force in members DF , DG , and EG .

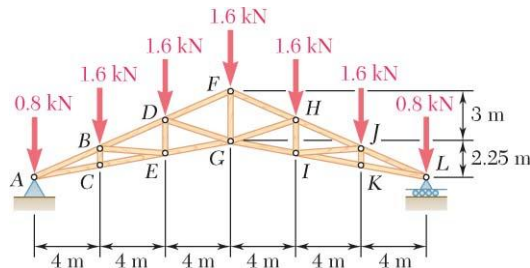


Fig. 3

Problem 4 (Problem 6.53)

A Pratt roof truss is loaded as shown. Determine the force in members CE , DE , and DF .

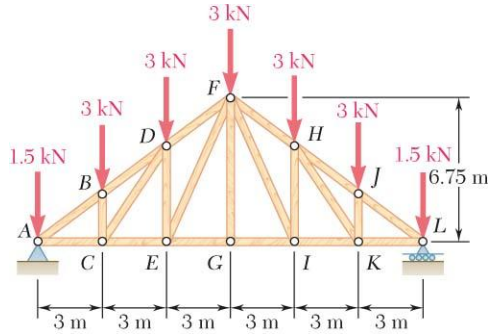


Fig. 4

Problem 5 (Problem 6.58)

A stadium roof truss is loaded as shown. Determine the force in members AE , EF , and FJ .

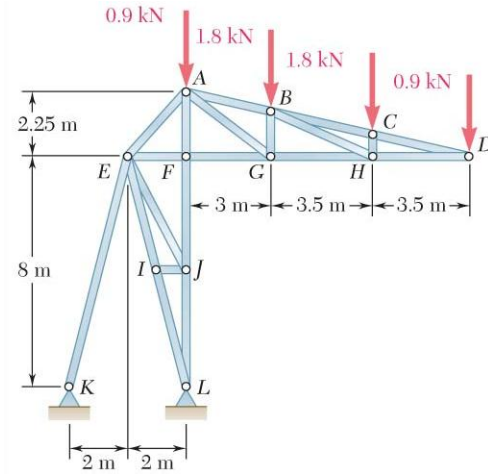


Fig. 5