Tutorial 11 (Part A)

 Determine the force in each member of the Warren bridge truss shown. State whether each member is in tension or compression



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



 Determine the force in members EH and GI of the truss shown. (*Hint*: Use section aa.)



 Using the method of virtual work, determine the magnitude of the couple M required to maintain the equilibrium of the mechanism shown



5) A 10-kg block is attached to the rim of a 300-mm-radius disk as shown. Knowing that spring *BC* is unstretched when $\theta = 0^{\circ}$, determine the position or positions of equilibrium, and state in each case whether the equilibrium is stable or unstable.







PROBLEM 6.9

Determine the force in each member of the Gambrel roof truss shown. State whether each member is in tension or compression.





$$F_{DE} = 2.6 \text{ kN}$$
 $T \blacktriangleleft$ $F_{DF} = 9 \text{ kN}$ $C \blacktriangleleft$

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 $F_{CE} = 8 \text{ kN}$ T



