ENGG 202
March 6 Week 8

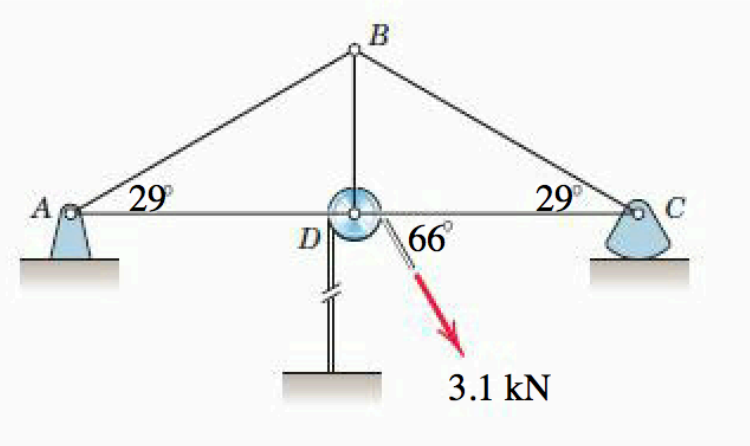
Problems

TRUSSES

RECAP Method of Joints, Statical determinacy.

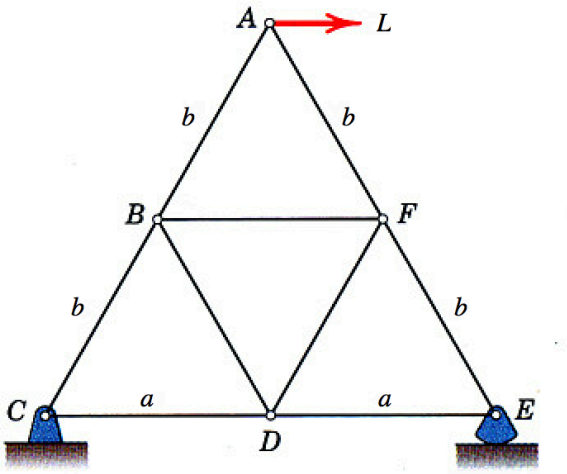
Supplemental Problem 4/09

Determine the force in each member of the truss. Forces are positive if in tension, negative if in compression.



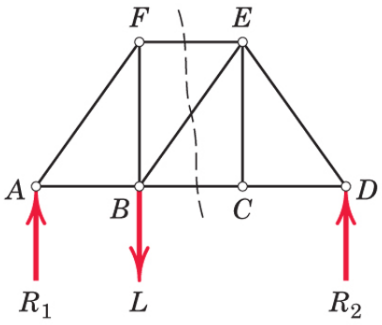
Supplemental Problem 4/10 (modified)

The truss is loaded and supported as shown. Set L = 490 N, a = 420 mm, b = 500 mm. If each member can only support 400 N in tension and 600N in compression, determine if the structure can support the 490 N load. Forces are positive if in tension, negative if in compression.

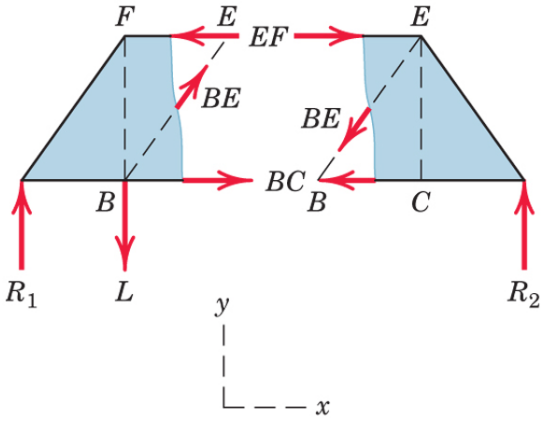


4/4 Method of Sections

Introduction about internal forces.



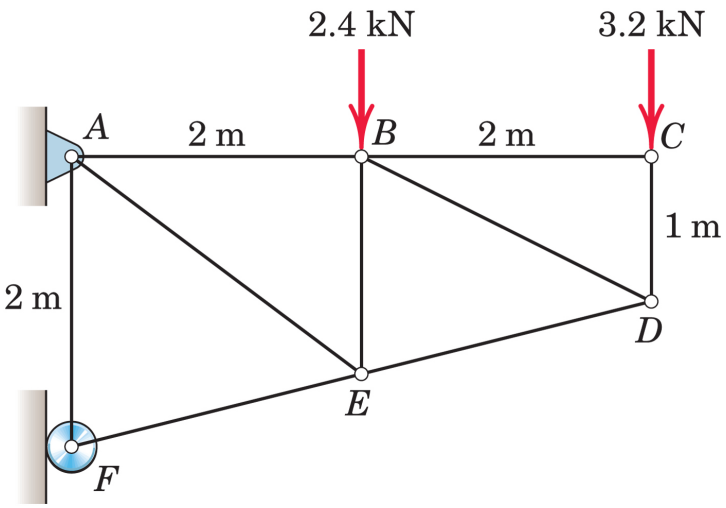
(a)



(b)

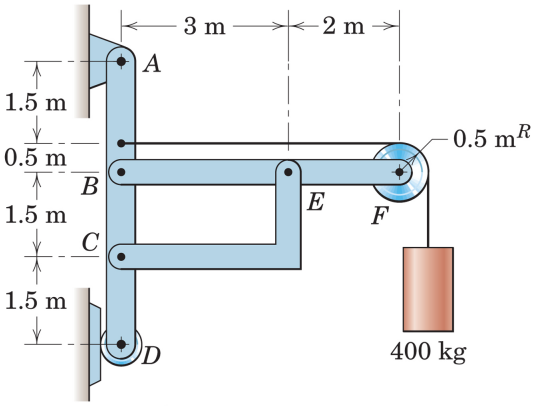
Problem 4/32

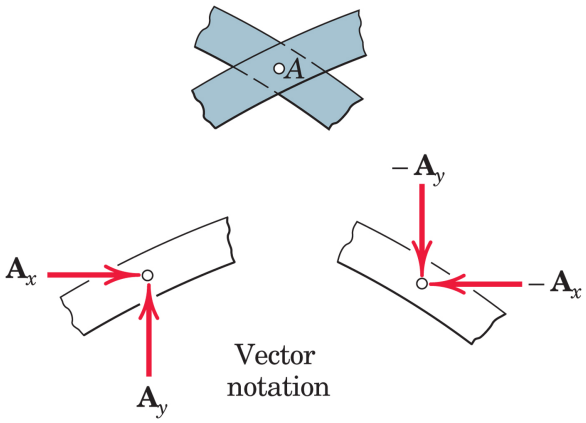
Determine the force in member AE of the loaded truss.

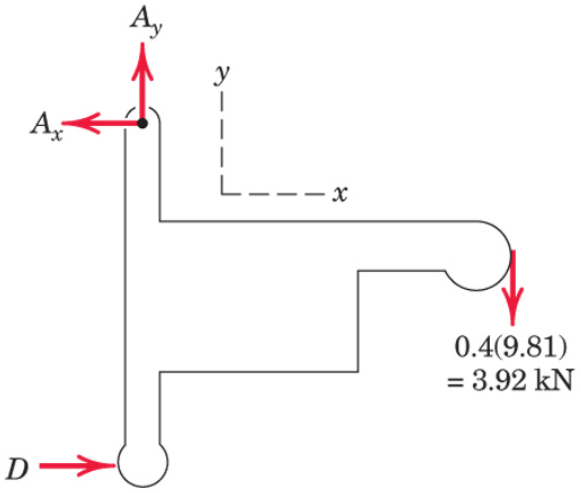


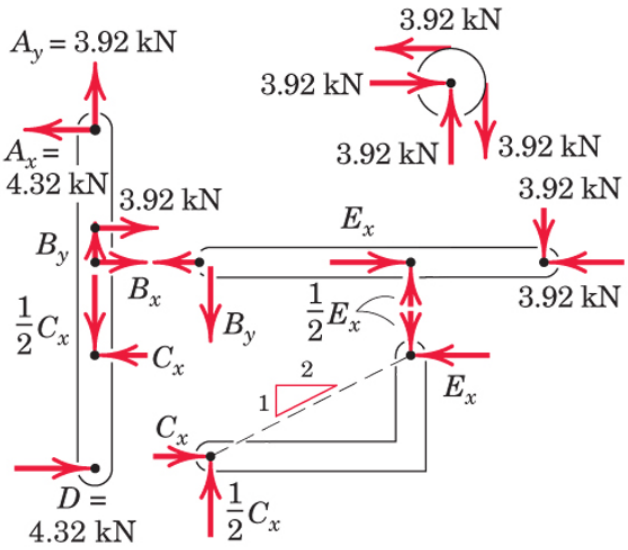
4/5 Frames and Machines

Introduction









Problem 4/78

Determine the magnitude of the pin reaction at A, B and C, due to the 6000 lb beam.