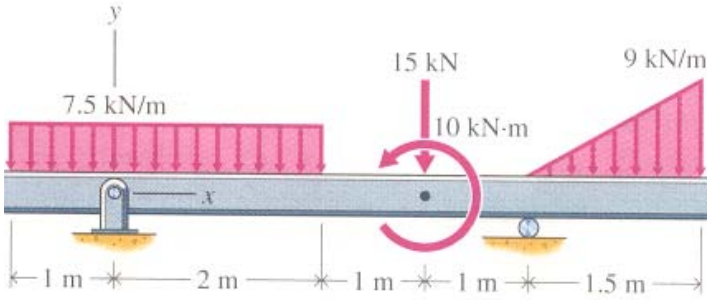
CIE200 Statics/F11 **Test #2** **NAME_____**

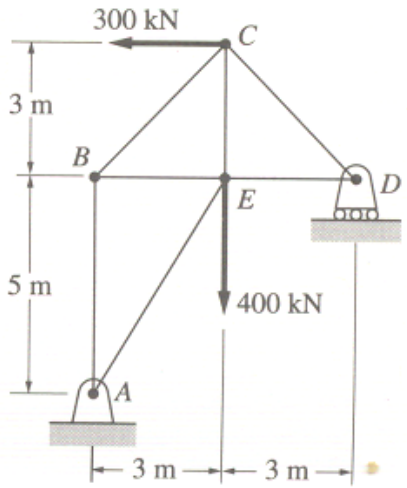
PROB-1-(15)

The beam is supported by a roller at B and a pin at A. Determine the reactions at the supports.



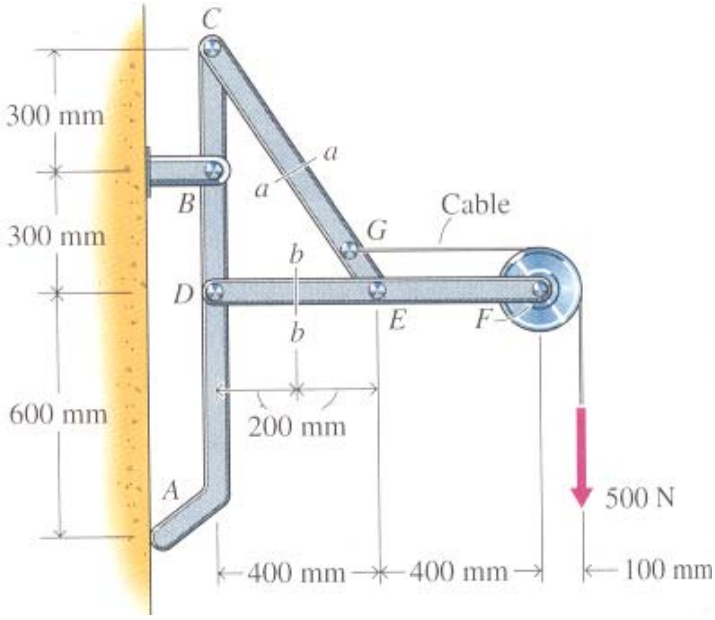
PROB-2-(30)

Determine forces in all the members of the truss shown below.



PROB-3-(30)

The weight of 500 N is attached to the frame by a cable about pulley at F. Draw the Free Body diagram of member DEF of the frame showing magnitude and direction of the forces.



PROB-4-(25)

The block W shown below has a mass of 250 kg. Bar *AB* rests against a smooth vertical wall at end *B* and is supported at end *A* with a ball-and-socket joint. The two cables are attached to a point on the bar midway between the ends. Determine the reactions at supports *A* and *B* and the tension in cable *CD*.