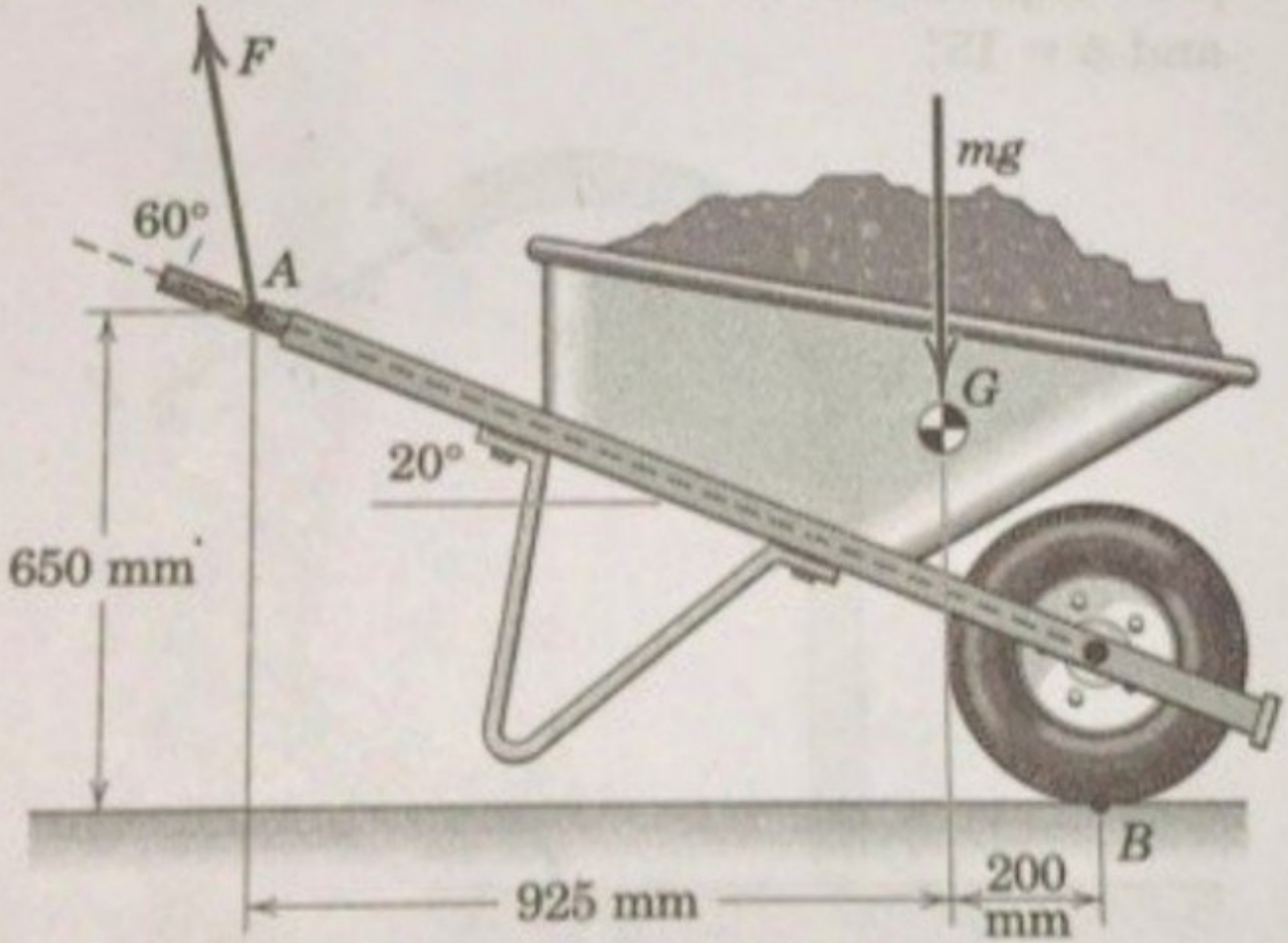
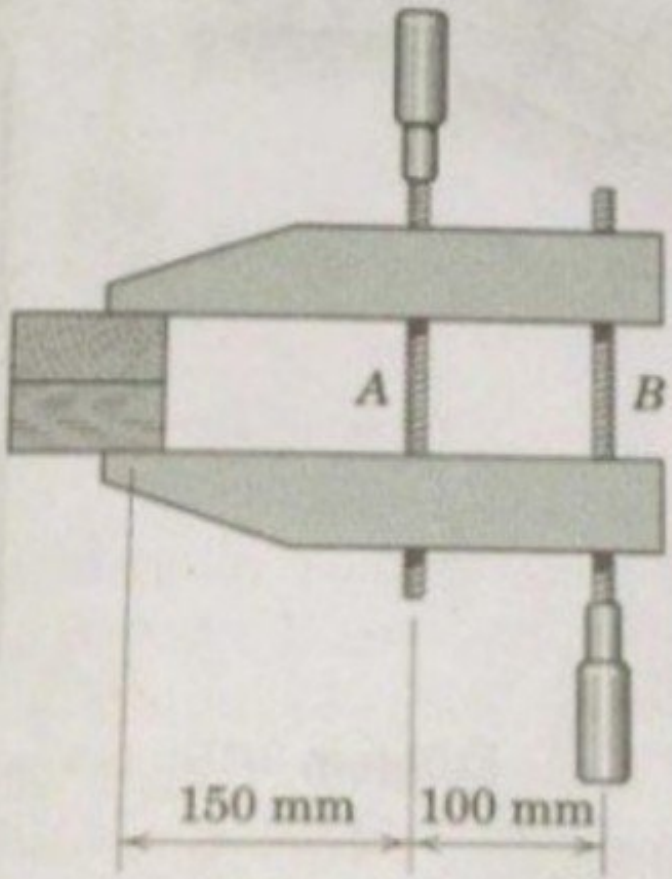
2/40 A man exerts a force F on the handle of the stationary wheelbarrow at A. The mass of the wheelbarrow along with its load of dirt is 85 kg with center of mass at G. For the configuration shown, what force F must the man apply at A to make the net moment about the tire contact point B equal to zero?



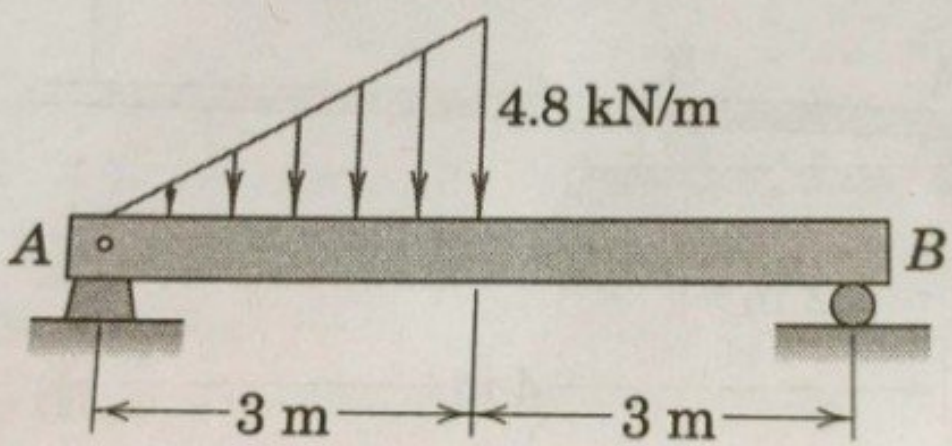
Problem 2/40

3/8 If the screw B of the wood clamp is tightened so that the two blocks are under a compression of 500 N, determine the force in screw A. (*Note:* The force supported by each screw may be taken in the direction of the screw.)



Problem 3/8

5/132 Determine the shear force V and bending moment M in the beam at a section 2 m to the right of



Problem 5/132