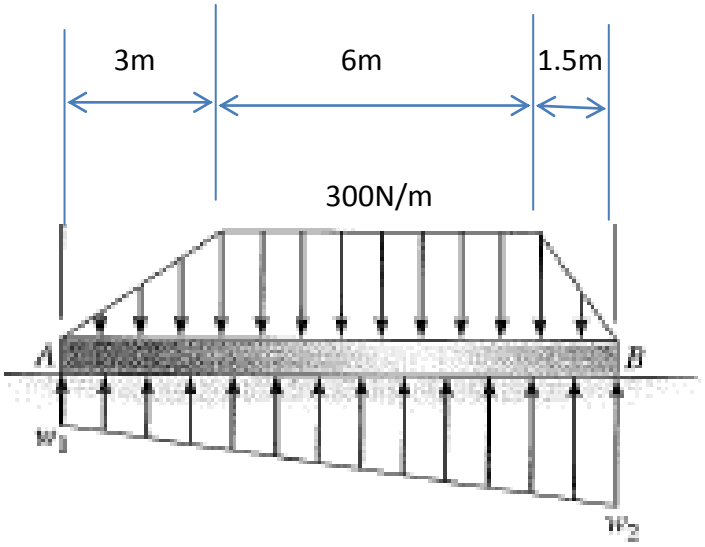
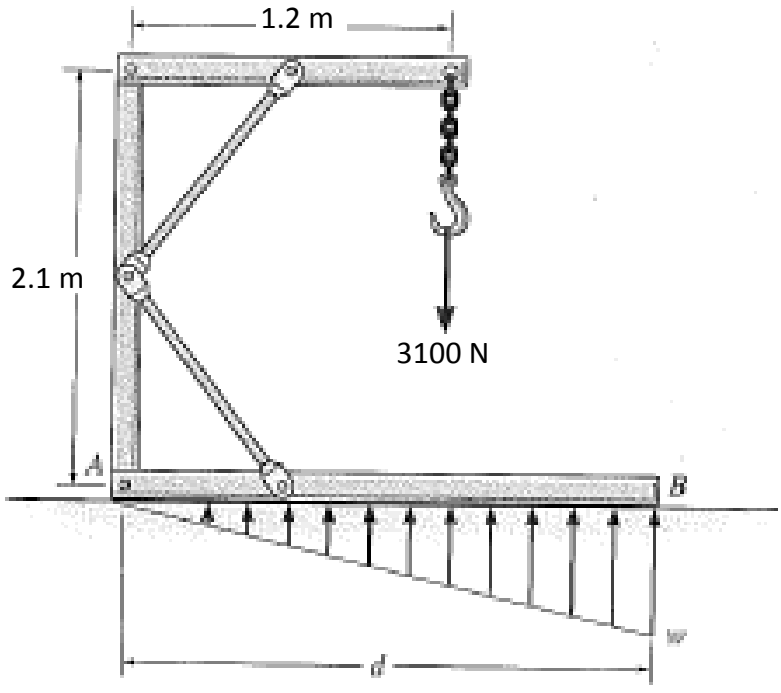
Engineering Statics Assignment #4 Name: ----------

Group:----------

1) Determine the loads w_1 and w_2 of the distributed loading acting on the bottom of the beam so that this loading has a resultant equal and opposite to the resultant of the distributed load on the top of the beam and the moment of all the forces acting on the beam about A is zero.



2) What is the load w so that the total didtributed load along AB is the sane as the applied load on the hook knowing that the frame will not tip over about point B



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3)For the load applied to the bracket shown below compute

a) The Resultant of all the forces, and

b) The sum of all the moments about point O

Note: the radius of the pulleys is 1 m.