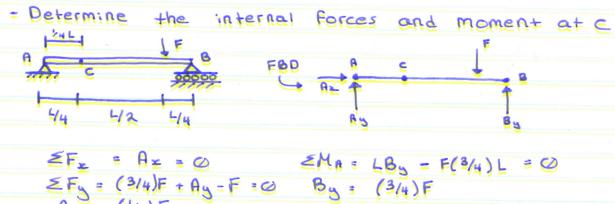
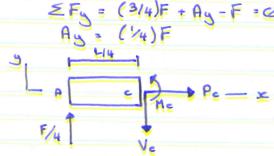
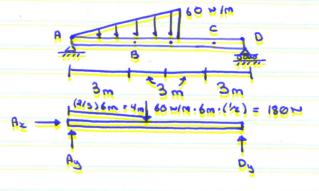


- 2 Internal Forces and Moments in Beams
 - a/ Determine the external forces and moments.
 - b/ Draw the FBD of part of the beam.
 - of Apply the equilibrium equations.





Determine the internal Forces and Moments

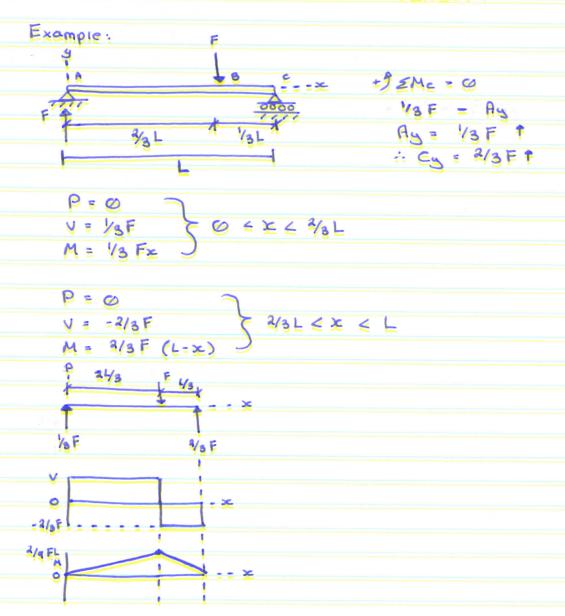


3 - Sheer Force and Bending Moment Diagrams

The shear Force and bending moment diagrams are simply the graphs of V and M, respectively, as Functions of X: They show the changes in the shear Force and bending moment that occur along the bears is length as well as the maximum and minimum value.

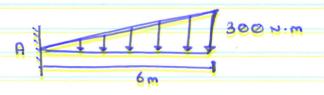
Meu: \$ (16

3 = Shear Force and Bending Moment Diagrams
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are simply the graphs of V and M, respectively
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Occur along the beam's length as well as
their maximum and minimum values:



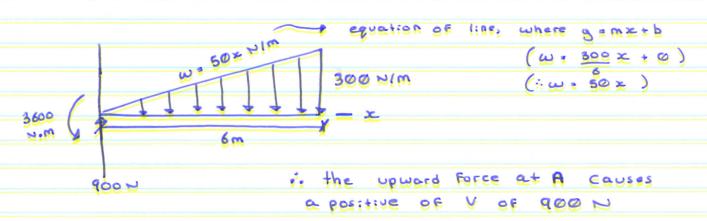
1 = Relations Between Distributed Load, Shear Force, and Bending Moment

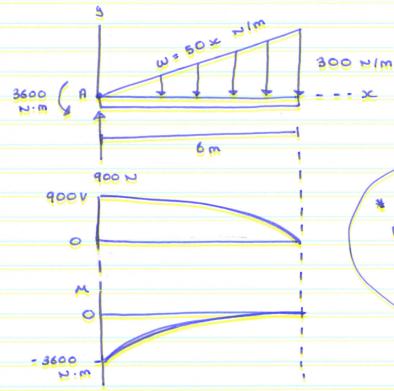
Determine the sheer force and bending moment diagrams for the beam



we must first determine the

MA = 3600 H:M (Check) !?





* Draw Shear + bending

moment diagram very

likely to be on Final

exam: For whatever

reason:

Distributed Loads on Eables

I = Leads distributed uniformly along a horizontal line:

The main cable of a suspension bridge is the classic example of a cable subjected to a load uniformly distributed along a horizontal line.

The load transmitted to the main cable by the large number of vertical cables can be modeled as a distributed load:

