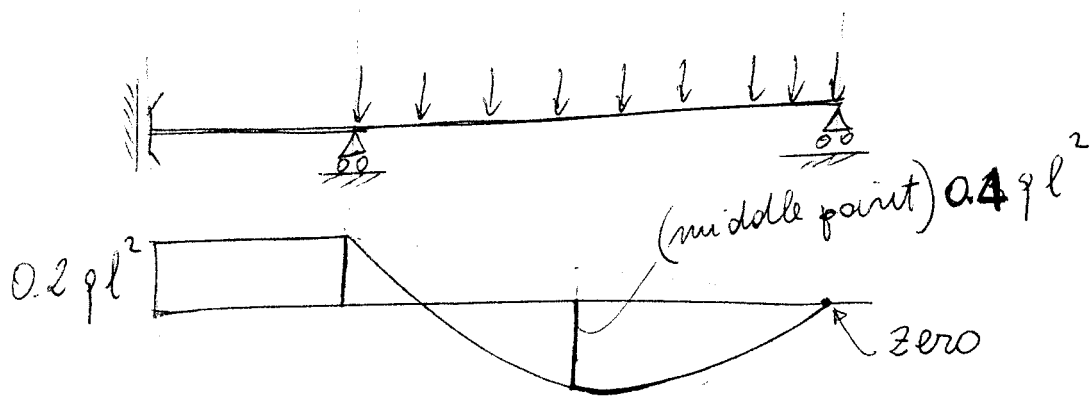


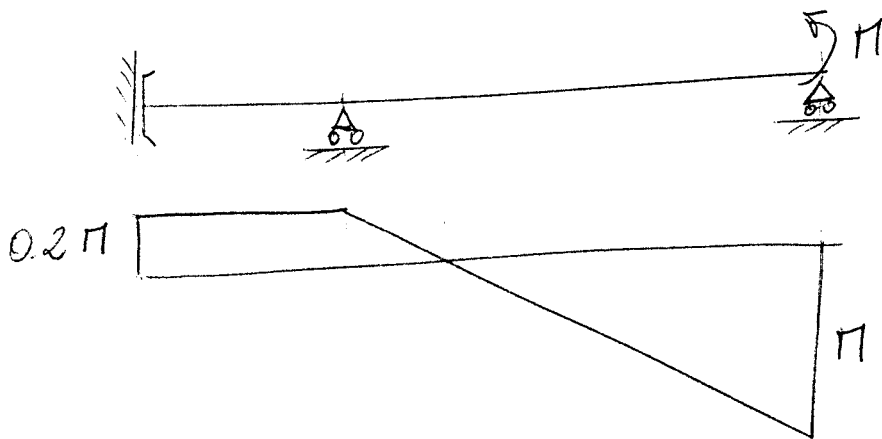
# Exact solution

7/

Bending moment due to  $q$ :



Bending moment due to  $M$ :



Therefore the FEM solution is accurate in the case of  $M$ , but it is "bad" for the external load  $q$ . A finer mesh would improve the FEM solution for  $q$  but not for  $M$ , since the  $M$ -part of the solution is exact.