

Problem M5

A simply supported beam, length $3L$, is loaded by a load P applied at a distance of L from the left hand end. The beam has a flexural stiffness EI .

- Calculate the deflection of the beam as a function of position along the beam.
- Calculate the maximum deflection of the beam and state its location.
- Calculate the location at which the bending moment is a maximum (is this the same as for (b)?)

