

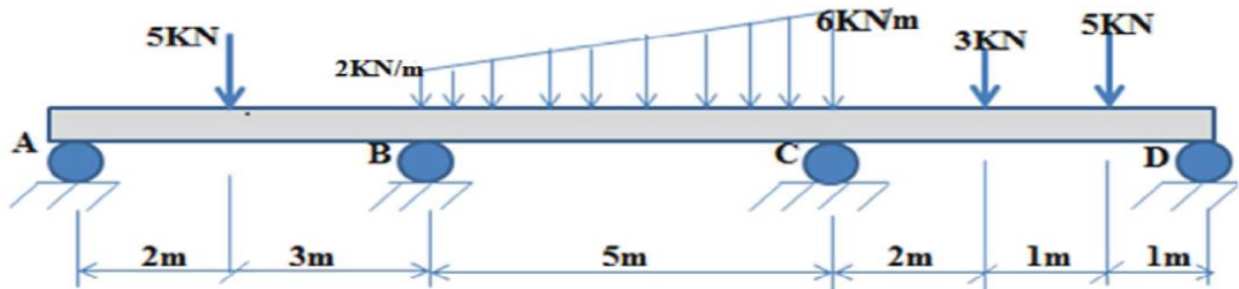
Group Assignment (1-3)

1. Use a method of slope-deflection to analyze a continuous beam under External loads shown below for two cases; and draw shear and bending moment diagram For (Case b).

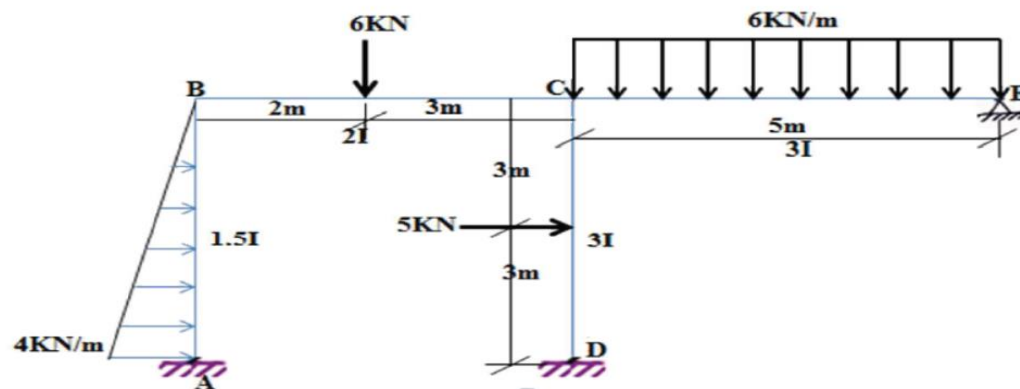
EI is constant.

(a) No support settlement.

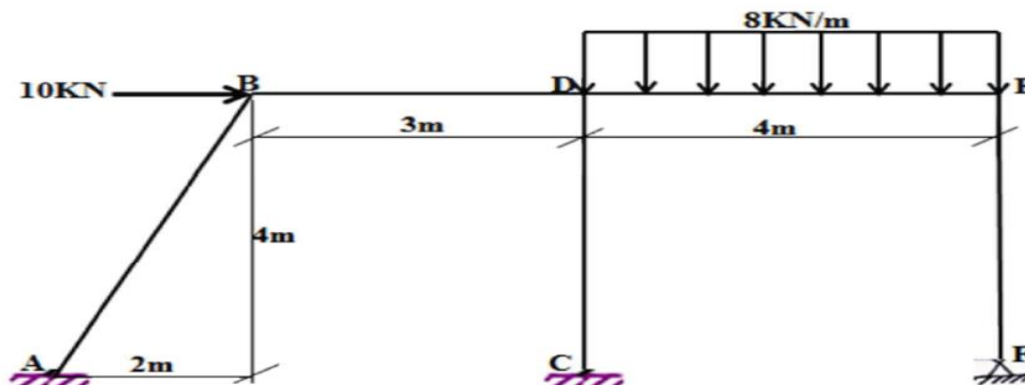
(b) Support B and C are subjected to Downward settlements 10mm and 20mm respectively.



2. Analyze the simple frame shown below by SD method and draw SF and BMD. Joint B settles down ward by 30mm. E is constant.



3. Use a method of slope-deflection to analyze a Frame under External loads shown below and draw shear and bending moment diagram. EI is constant.



4. Analyze the simple frame shown below by Moment Distribution method and draw SF and BMD.
Joint B settles down ward by 20mm. EI is constant.

