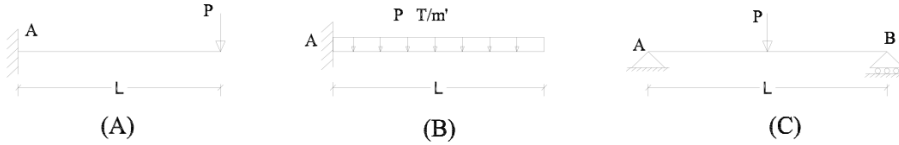


1-For Simple Structure find the maximum deflection [  $y_{max}$  ] using double integration method & Conjugate Beam Method :

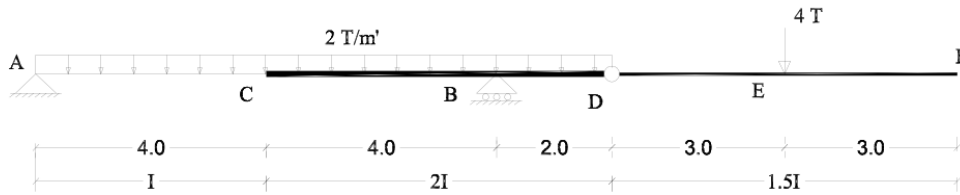
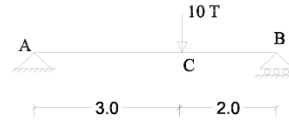


By Using Conjugate Beam Method find the following :

(2)

-  $EI = 10000 \text{ T.m}^2$

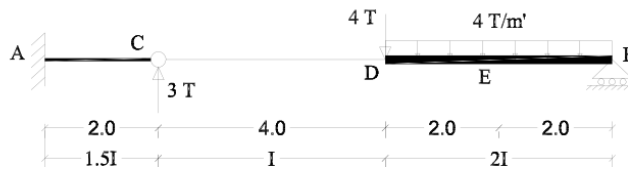
- Req :  $y_C - O_A, O_B, O_C$ .



(3)

-  $EI = 10000 \text{ T.m}^2$

- Req :  $y_D, y_C, y_E - O_A, O_B, O_C, O_E, O_F, O_D$  change.

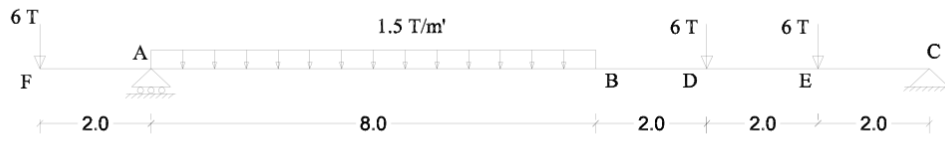


(4)

-  $E = 2000 \text{ T/cm}^2$

-  $I = 50000 \text{ cm}^4$

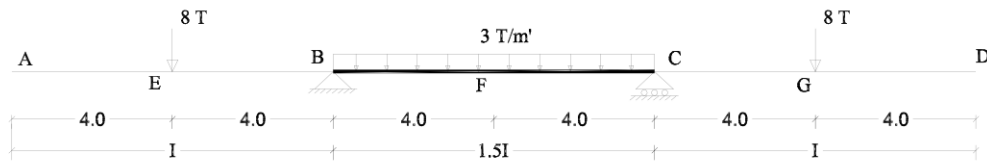
- Req :  $y_C, y_D, y_E - O_B, O_C$  change,  $O_E$ .



(4)

-  $EI = 10000 \text{ T.m}^2$

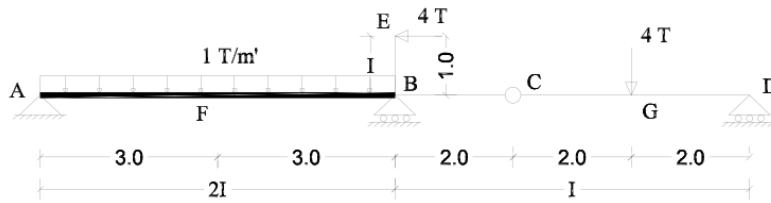
- Req :  $y_B, y_F$



(5)

- Req :  $y_A, y_D, y_F$

-  $EI = 10000 \text{ T.m}^2$



(6)

-  $EI = 22400 \text{ T.m}^2$

- Req :  $y_F, y_C, X_E - O_A, O_B, O_F.$