Ministry of Higher Education
Higher Technological Iinstitute
6th October Branch
Civil Enginering Department
Structural Section

Structure Analysis-III
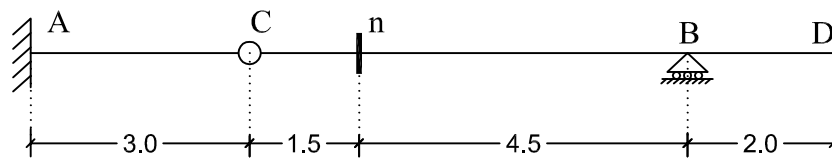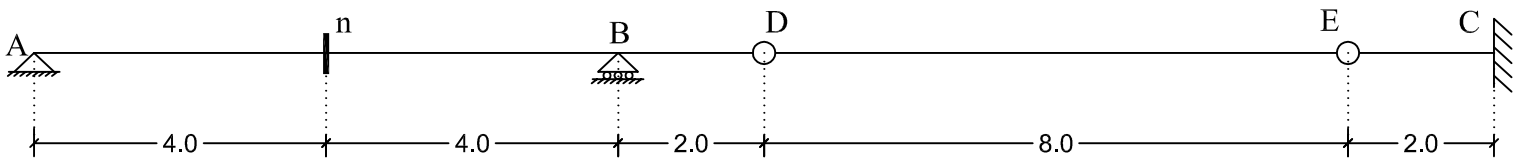SHEET (2)
Dr. Mohammad Mohie Eldin
Eng. Ibrahim R. Sallam

A)- For the statically determinate compound beams ,draw the I.L for the function indicated. Calculate the maximum values of the particular function (as required for each beam) due to a D.L g=2 T/m' , and a uniformly distributed L.L P=3 T/m' of indicated length.

(1) I.L $Y_A, Y_B, Y_C, M_A, Q_n, M_n, Q_{B\ left}$, and calculate $M_{n\ max}, M_{n\ min}$.

(2) I.L $Y_A, Y_B, Y_C, Y_D, Y_E, Q_n, M_n, M_C, Q_{B\ left}, Q_{B\ right}$, and M_B.

cross girders
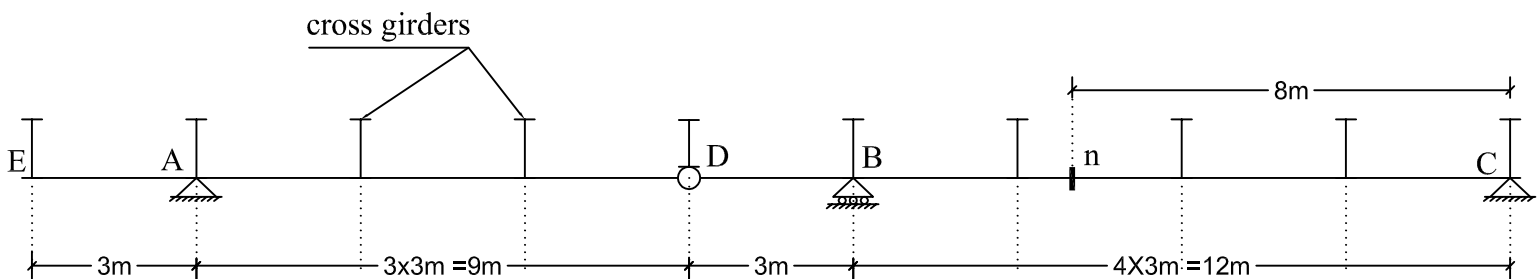
(3) I.L $Y_A, Y_B, Y_C, Y_D, M_B, Q_n, M_n, Q_{B\ left}$, and calculate $M_{n\ max}, M_{n\ min}, Q_{n\ max}, Q_{n\ min}$.

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