Ministry of Higher Education
Giza Higher Institute of Engineering \& Technology
Civil Engineering Department
Course Name: Theory of Structures (3)
Course Code : CIV 301 Date: 13/11/2017

Academic Year: 2017/2018
Semester: First
Level :
Time: $\quad 1 \frac{114}{4}$ Hours
Examiner: Dr. M. Abdel-Kader

# Question (1): (10 Marks) <br> Using the double integration method, determine the deflection at $\boldsymbol{b}$, the slope at section just to the left of $\boldsymbol{b}$, and sketch the elastic curve of the beam. <br> $E I=6 \times 10^{5} \mathrm{kN} . \mathrm{m}^{2}$ 

## Solution:

## Question (2): (10 Marks)

For the shown beam, using the moment-area method, determine:


## Solution:

