Ministry of Higher Education
Giza Higher Institute for Eng. & Tech.
Civil Engineering Department
Course Name: **Theory of Structures (3)**
Course Code : **CIV 301**

Academic Year : **2015-2016**
Semester : **First**
Level : **3rd**
Time : **½ Hours**
Date : **8 / 11 / 2015**
Examiner: **Dr. M. Abdel-Kader**

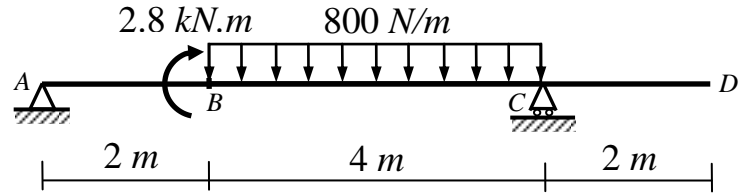:   :

Quiz

Question (1): (10 Marks)

For the shown beam, using the **double integration method**, determine:
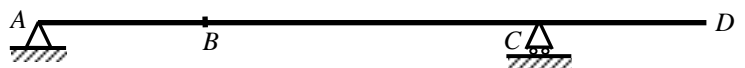
(a) the deflection at B

(b) the deflection at D

(c) the slope at D

and sketch the elastic curve of the beam.

$EI = 0.45 \times 10^6 \ N.m^2$

2.8 $kN.m$ 800 N/m

A D

B C

2 m 4 m 2 m

Solution:

A D

B C

Elastic curve