



Alexandria Higher Institute of Engineering & Technology (AIET)

Department of: General

Preparatory Year

0th Year

ME001

Mechanics I

Midterm-of-Semester-1 Exam, Dec., 20, 2011

Examiners:

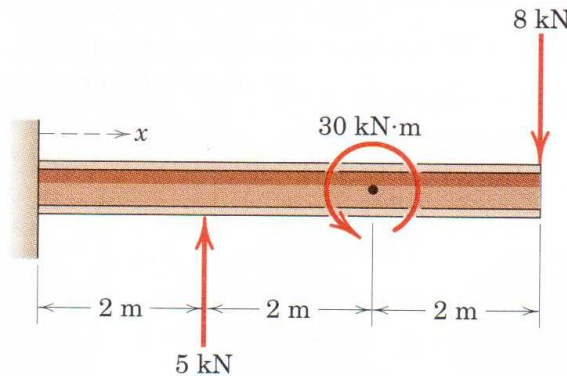
Dr. Sayed Hassan and Dr. Rola Afify

Time: 1 hour

Answer the following questions:

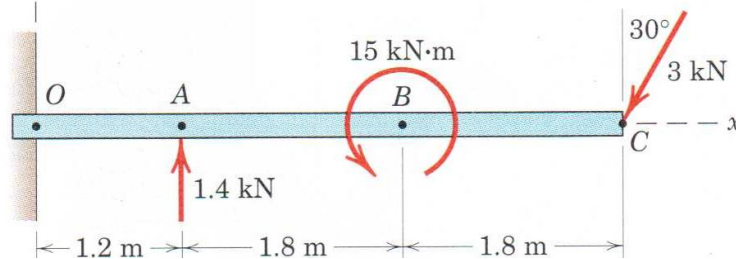
Question One: (3 marks)

Determine and locate the resultant R of the two forces and one couple moment acting on the beam.



Question Two: (3 marks)

The 500 kg uniform beam is subjected to the three external loads shown. Compute the reactions at the support at point O .



Question Three: (4 marks)

Determine the force in each member of the loaded truss and specify whether they are in tension or in compression.

