ASSIGNMENT (CHAPTER 2)

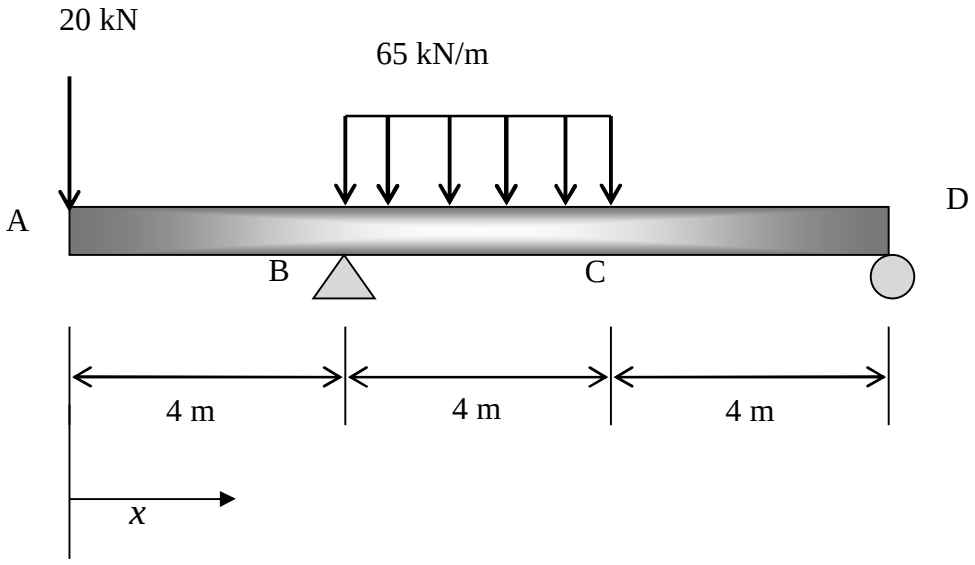

Figure Q1

An overhanging steel beam AD shown in **Figure Q1** is subjected to an axial compression load of 20 kN at point A and a uniformly distributed load with intensity of 65 kN/m acts along segment BC. Take EI for the beam as 20 x 10^3 kNm^2. With the distance, *x* start from the overhanging point A and using the Unit Load Method, determine:

a) The real moment function for segment AB, BC and DC

b) The displacement at the center between segment BD

c) The slope at the overhanging, A of the beam. using