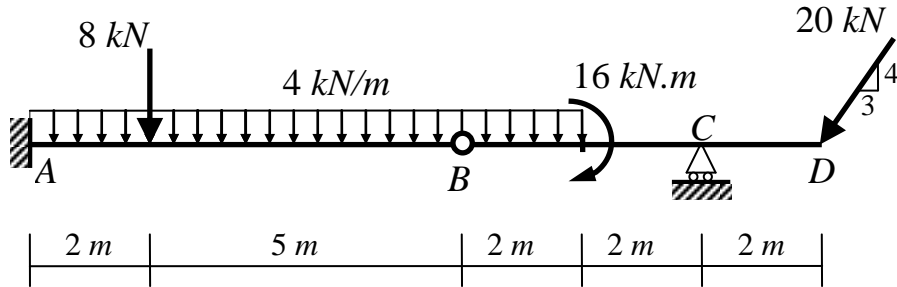


المادة: نظرية الإنشاءات (١)  
 الرقم: CIV 201

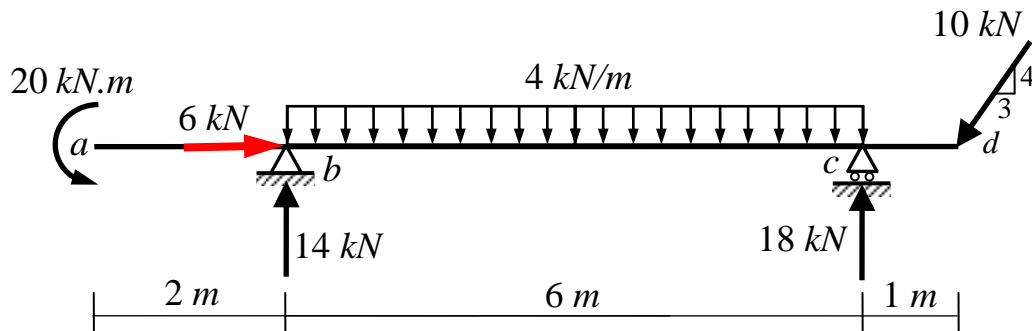
**Question (1): (8 Marks)**

For the shown beam, determine the reactions at the supports. Clearly indicate the final reactions (direction and magnitude).



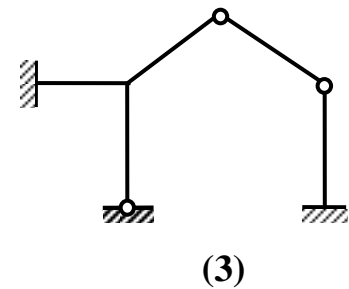
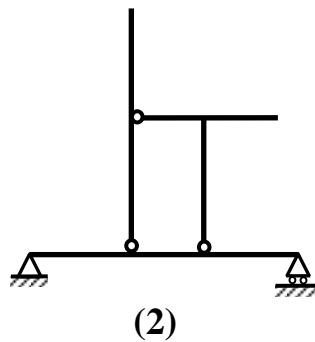
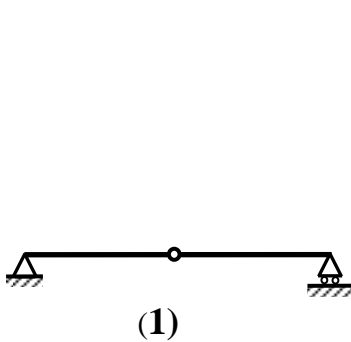
**Question (2): (9 Marks)**

For the shown beam, draw the normal force, shear force and bending moment diagrams. Note that the reactions are given.



**Question (3): (3 Marks)**

Determine whether each of the shown structures is stable or unstable. If stable, determine whether it is statically determinate or indeterminate.



Good luck!

Dr. M. Abdel-Kader