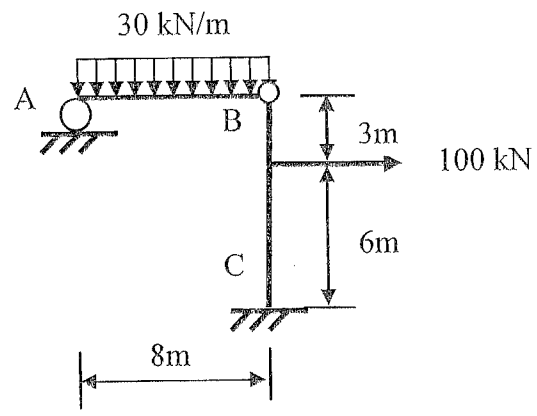
國立聯合大學 101 學年度碩士班考試招生

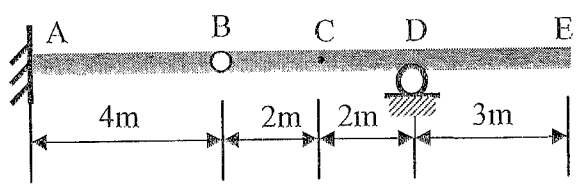
土木與防災工程學系　入學考試試題

科　目：結　構　學　

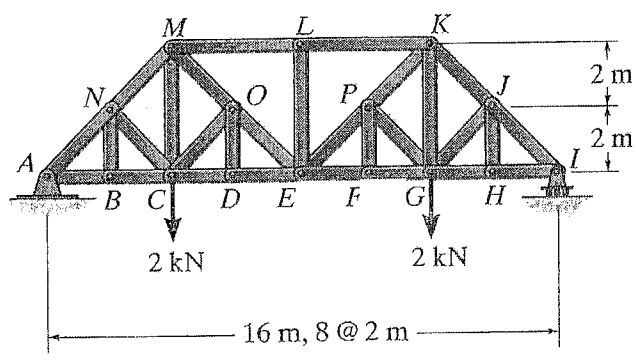
一、求圖示各支承反力，並繪出構架之剪力圖、彎矩圖及軸力圖。(20%)



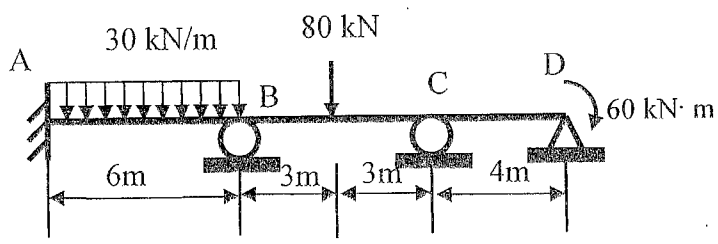
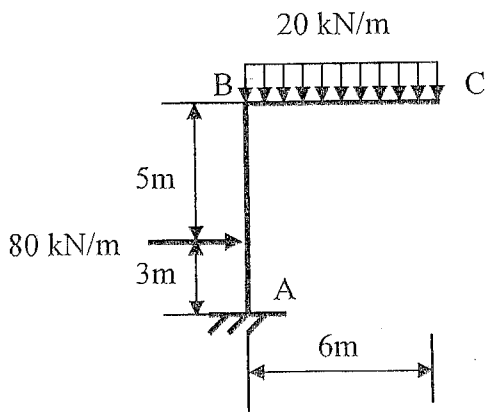
二、繪出圖示樑各指定量之影響線：(1) D 點反力；(2) C 點彎矩；(3) C 點剪力；(4) B 點剪力；(5) A 點彎矩。(20%)



三、試求圖示桁架：(1) 判斷桁架中哪些桿件內力為零；(b)求桁架LK及FG桿之內力。(20%)



四、試求樑各桿端彎矩，假設各桿 EI (彈性模數×面積慣性矩) 值為常數。(20%)



五、試求構架 C 點的垂直位移，假設各桿 EI = 30000 kN·m^2。(20%)