

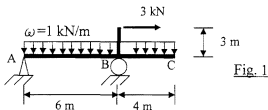
系所組別 建築學系乙組

考試科目 應用力學

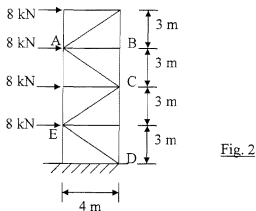
考試日期：0306，節次：3

※ 考生請注意：本試題 可 不可 使用計算機

1. Draw the Axial, Shear, and Moment Diagram of the structure ABC in Fig. 1. (30%)



2. In the first question, if all the vertical loads are not existing, only the horizontal load of 3 kN still remains, what is the deflection at point C. (30%)
3. Calculate the member force in members AC, CE, and BC of the truss system in Fig.2. (20%)



4. If member DE in Fig. 2 is under compression, what is the buckling load capacity of the member if the member cross section is shown in Fig. 3 and assume  $E=200 \text{ GPa}$ . (20%)

