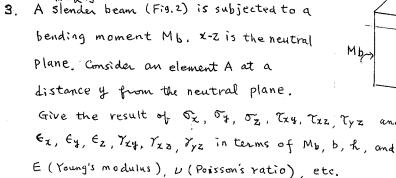
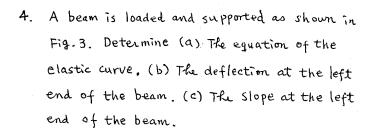
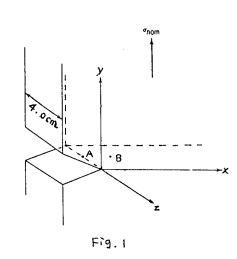
- A Kic compact tension specimen with a thickness 4.0 cm is subjected to a nominal stress Thom elastically in y direction. If Thom = 200 MPa, Kt (stress concentration factor) at A = 2.0, V = 0.27, E = 200 GPa, estamate the stress and strain states at location A (Fig. 1).
- In Fig.1, B is at a distance 0.5 cm 2. from location A. Draw a Mohr's circle for the stress state at A and B, respectively. Note: Exact calculation of stress state at B is not necessary, but a reasonable estimation of the magnitude of stress at B (relative to that at A) is still desirable.







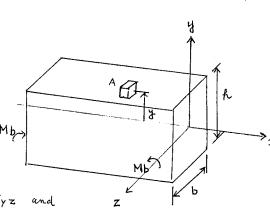
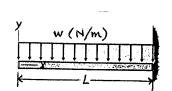


Fig. 2



(以上每题各估25%)