

**Numerical answers**

4. (a)  $\bar{\rho} = \frac{2t}{l}$

(b)  $E_1 = 0.5\bar{\rho}E_s$

$$\sigma_{11}^Y = 0.5\bar{\rho}Y$$

(c)  $\sigma_{12}^Y = \frac{1}{16}\bar{\rho}^2Y$