

Tutorial 1

Task 1

Working from the definitions of e and v in terms of V , V_v and V_s , show that $v = 1+e$.

Task 2

Show that:

$$\rho = G_s \cdot \rho_w \cdot \left(\frac{1+w}{1+e} \right)$$

Task 3

Working from the definitions of e and n in terms of V , V_v and V_s , show that:

$$(a) \quad e = \frac{n}{1-n}$$

$$(b) \quad n = \frac{e}{1+e}$$