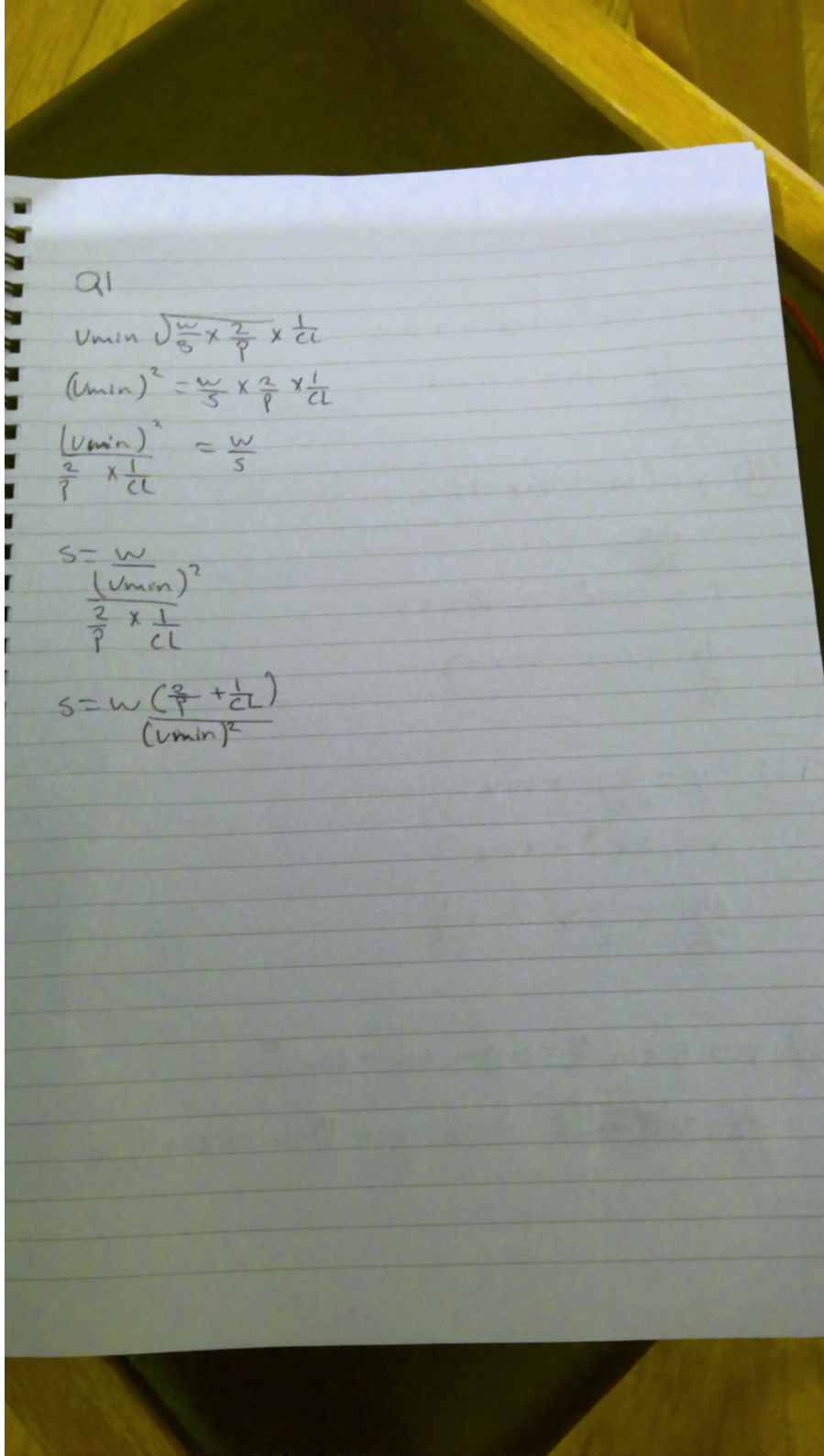
Q1
$V_{min} \sqrt{\frac{W}{S} \times \frac{2}{\rho} \times \frac{1}{C_L}}$
$(V_{min})^2 = \frac{W}{S} \times \frac{2}{\rho} \times \frac{1}{C_L}$
$\frac{(V_{min})^2}{\frac{2}{\rho} \times \frac{1}{C_L}} = \frac{W}{S}$
$S = \frac{W}{\frac{(V_{min})^2}{\frac{2}{\rho} \times \frac{1}{C_L}}}$
$S = W \left(\frac{\frac{2}{\rho} + \frac{1}{C_L}}{(V_{min})^2}\right)$