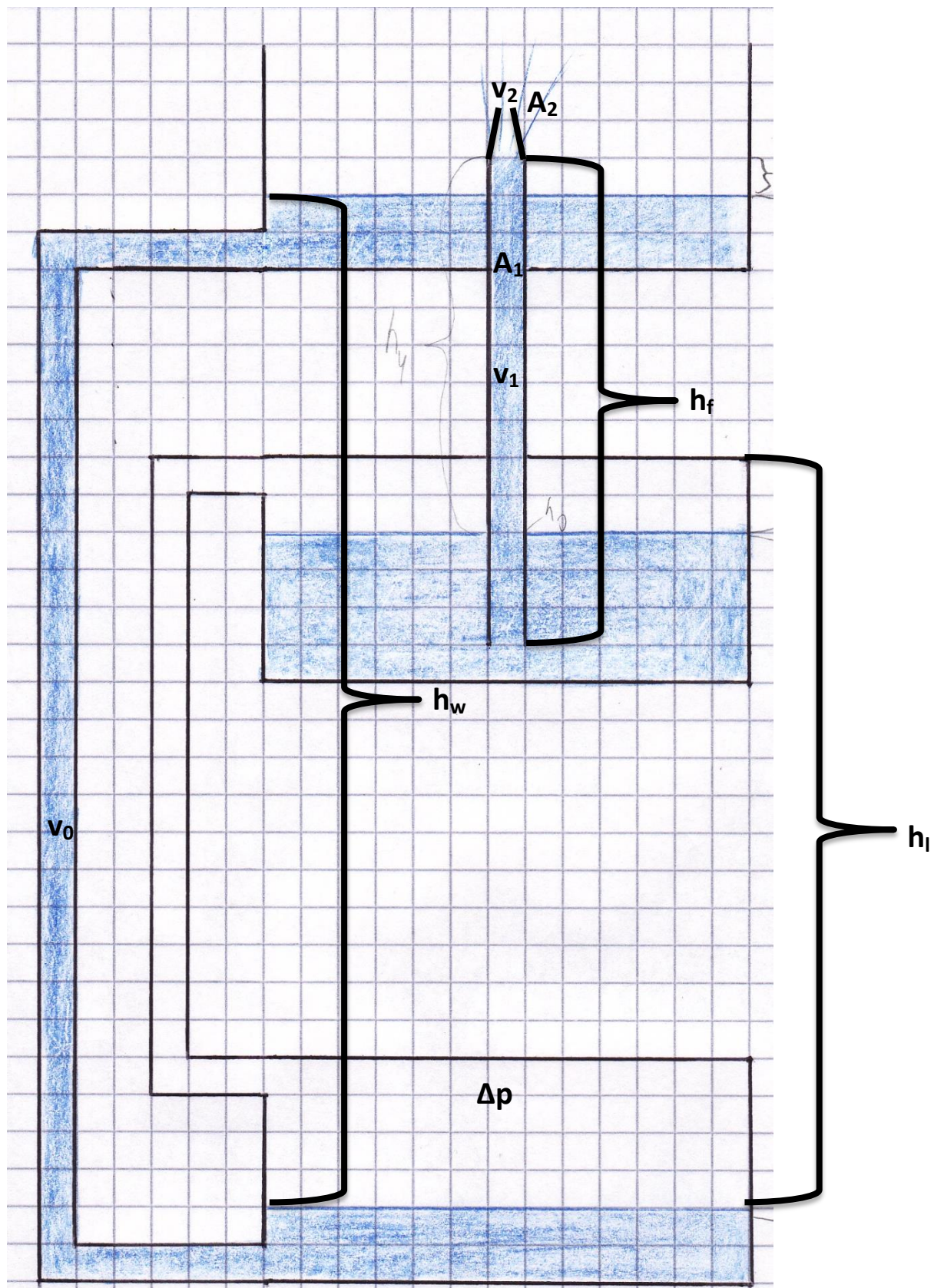




$$\Delta p = \rho \cdot g \cdot h_w - (\rho \cdot g \cdot h_f + \rho_L \cdot g \cdot h_c)$$

$$\Delta p = \rho \cdot g \cdot (h_w - h_f) - \rho_L \cdot g \cdot h_c$$

$$v_o = \sqrt{2g h_w} \quad v_i = \sqrt{\frac{2 \cdot \Delta p}{\rho}}$$

$$v_2 = \frac{A_1 \cdot v_1}{A_2}$$

$$h_m = \frac{v_2^2}{2g}$$

$$h_m = \frac{A_1^2}{A_2^2} \cdot (h_w - h_f - \rho_L \cdot h_c)$$

