



$$P_A = P_A'$$

$$P_B + \rho g h = 1013 \cdot 10^3 \text{ Pa}$$

$$P_B \cdot V_B = P_A \cdot V_A$$

$$P_B \cdot \cancel{S} (1-h) = 1 \cdot \cancel{S} \cdot h$$

$$P_B = \frac{1}{1-h}$$

$$\rho_{Hg} g h = 1013 \cdot 10^3 - \frac{1}{1-h}$$

$$13'6 \cdot 10^3 \cdot 9'8 h = \frac{1013 \cdot 10^3 - 1013 \cdot 10^3 h - 1}{(1-h)}$$

$$133280 h - 133280 h^2 = 101299 - 1013 \cdot 10^3 h$$

$$133180 h^2 - 234580 h + 101299 = 0$$

$$h = \frac{234580 \pm \sqrt{31988'33}}{2 \cdot a} = 0'7 m$$