

السؤال الأول (10 درجات)

$$P_A = 9.81 [13600 * 1 - 1000 * 1.5 + 900 * 1.3]$$

$$P_A = 130178.7 Pa$$

السؤال الثاني (15 درجة):

$$F_x = \gamma \cdot h_c \cdot A$$

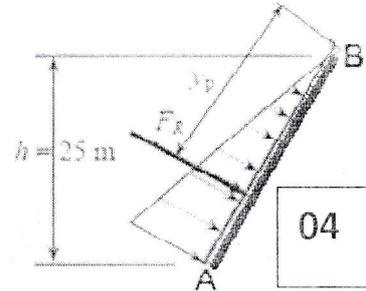
$$L = \frac{25}{\sin 60} = 28.86 m$$

$$A = L \cdot B = 28.86 * 10 = 288.6 m^2$$

$$h_c = \frac{25}{2} = 12.5 m$$

$$F_x = 9810 * 12.5 * 288.6 = 35389.5 * 10^3 N$$

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$$y_R = \frac{I_x}{A \cdot y_c} + y_c$$

$$y_c = \frac{28.86}{2} = 14.43 m$$

$$I_x = \frac{bh^3}{12} = \frac{10 * (28.86)^3}{12} = 20031.23 m^4$$

$$y_R = 19.24 m$$

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