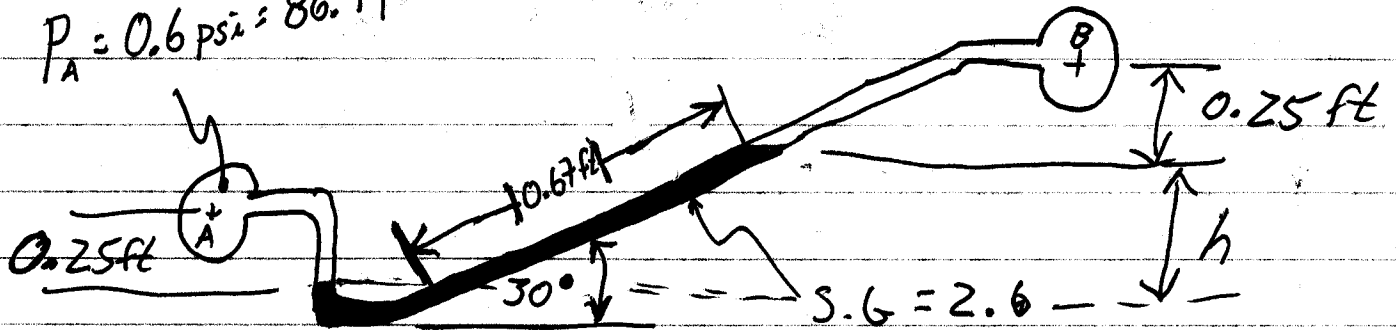


MYO 2.32

$$P_A = 0.6 \text{ psi} = 86.4 \text{ psf}$$



$$P_B = P_A + \gamma_{H_2O} (0.25 \text{ ft}) - \gamma_{\text{man}} (h) - \gamma_{H_2O} (0.25 \text{ ft})$$

$$\sin 30^\circ = \frac{h}{10.67 \text{ ft}} \Rightarrow h = 5.335 \text{ ft}$$

$$\gamma_{H_2O} = 62.4 \text{ lb/ft}^3$$

$$\gamma_{\text{man}} = (2.6)(62.4 \text{ lb/ft}^3) = 162.2 \text{ lb/ft}^3$$

$$P_B = 86.4 \text{ psf} + (62.4 \frac{\text{lb}}{\text{ft}^3})(0.25 \text{ ft}) - (162.2 \frac{\text{lb}}{\text{ft}^3})(5.335 \text{ ft}) - (62.4 \frac{\text{lb}}{\text{ft}^3})(0.25 \text{ ft})$$

$$P_B = 32.1 \text{ psf} = 0.22 \text{ psi}$$