

78. We use $p = p_{\text{air}} = \rho gh$ to obtain

$$h = \frac{p_{\text{air}}}{\rho g} = \frac{1.01 \times 10^5 \text{ Pa}}{(1000 \text{ kg/m}^3)(9.8 \text{ m/s}^2)} = 10.3 \text{ m} .$$