## Question

What is the height of a column of water that will result from addition of enough NaCl to make a 0.1 M solution.
A. 25 m
B. 2.5 m

C 0.25 m
D 0.025 m

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$$
\begin{aligned}
\Pi & =c R T=\rho g h \\
h & =c R T / \rho g=\frac{\left(100 \mathrm{~mol} / \mathrm{m}^{3}\right)(8.31 \mathrm{~J} / \mathrm{mol}-\mathrm{K})(298 \mathrm{~K})}{\left(1000 \mathrm{~kg} / \mathrm{m}^{3}\right)\left(9.8 \mathrm{~m} / \mathrm{s}^{2}\right)} \\
& =25 \mathrm{~m}
\end{aligned}
$$

