Quiz Chapter 5 − Question Two

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$$
\begin{aligned}
\text{mol}_N &= \frac{1 \cdot 2}{298 \cdot .0821} \\
&= .0817[\text{mol}] \\
\text{mol}_O &= \frac{3 \cdot 2}{298 \cdot .0821} \\
&= .245[\text{mol}] \\
P &= \frac{(.245 + .0817) \cdot .0821 \cdot 298}{(3 + 2)} \\
&= 1.6[atm]
\end{aligned}
\tag{1}
$$