P #B

Ch 12 Worksheet

$n = 1.5\ mol$

$\Delta T = 120\ K$

$\Delta KE = \frac{3}{2} \cdot k_B \cdot \Delta T$ or $\Delta U = \frac{3}{2} \cdot n \cdot R \cdot \Delta T$

$\Delta U = \frac{3}{2} \cdot (1.5\ mol)(8.31\ J/mol \cdot K)(120\ K)$

$\boxed{\Delta U = 2240\ J}$