



$$U = \sum_{\substack{\text{distinct} \\ \text{pair}}} K \frac{q_i q_j}{r_{ij}}$$
$$= K \left\{ \frac{q_1 q_2}{r_{12}} + \frac{q_1 q_3}{r_{13}} + \frac{q_2 q_3}{r_{23}} \right\}$$
$$= \underline{4.765 \times 10^{-6} \text{ J}}$$

