Week 8 Worksheet

1. a) Use half-headed curves arrows to show the movement of electrons in the reaction.

\[ \ce{H\text{CH}_3 + \cdot\text{Br} : \rightarrow H\cdot\text{Br} : + \text{H}_2\text{C}\text{CH}_3} \]

b) Using the BDE table in the textbook, calculate \( \Delta H \) for the reaction in kJ/mol

c) The reaction is (endothermic / exothermic) and energy is (absorbed / released)

d) Draw an energy diagram. Label starting material, product, \( \Delta H^0 \), \( E_a \), and transition state.