

Wkst 1.2: Activation Energies

For the P.E. diagrams below, showing the progress of a chemical reaction, draw the curve and show:

- ΔH for the over-all reaction
- if the latter is exothermic or endothermic
- the E_{af} for each step
- the E_{ar} for each step
- the preferred reaction direction
- the rate-determining step

E_{af} = the activation energy in the forward direction

E_{ar} = the activation energy in the reverse direction

Diagram 1

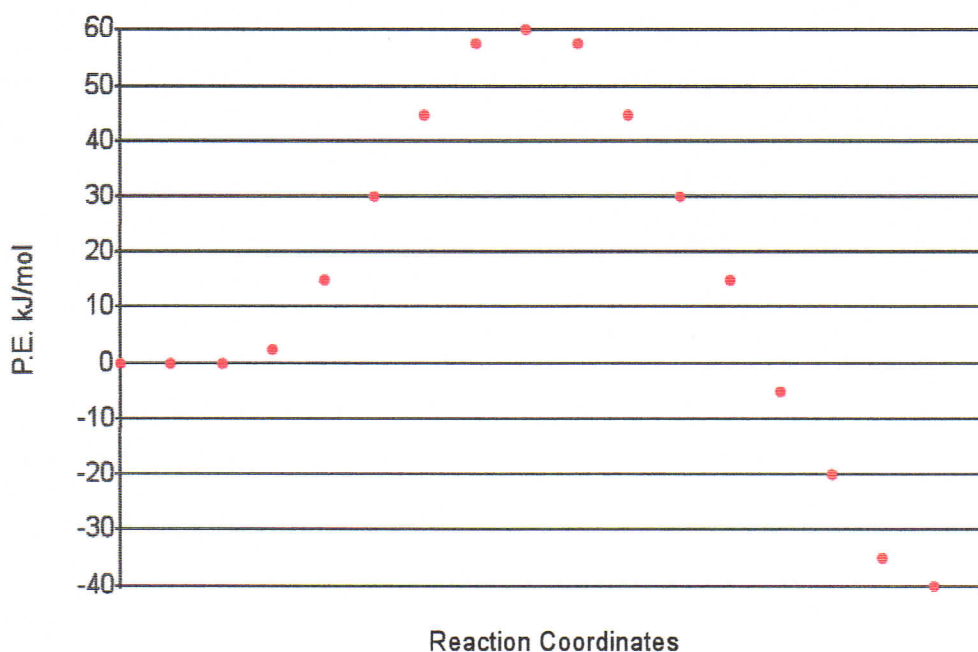


Diagram 2

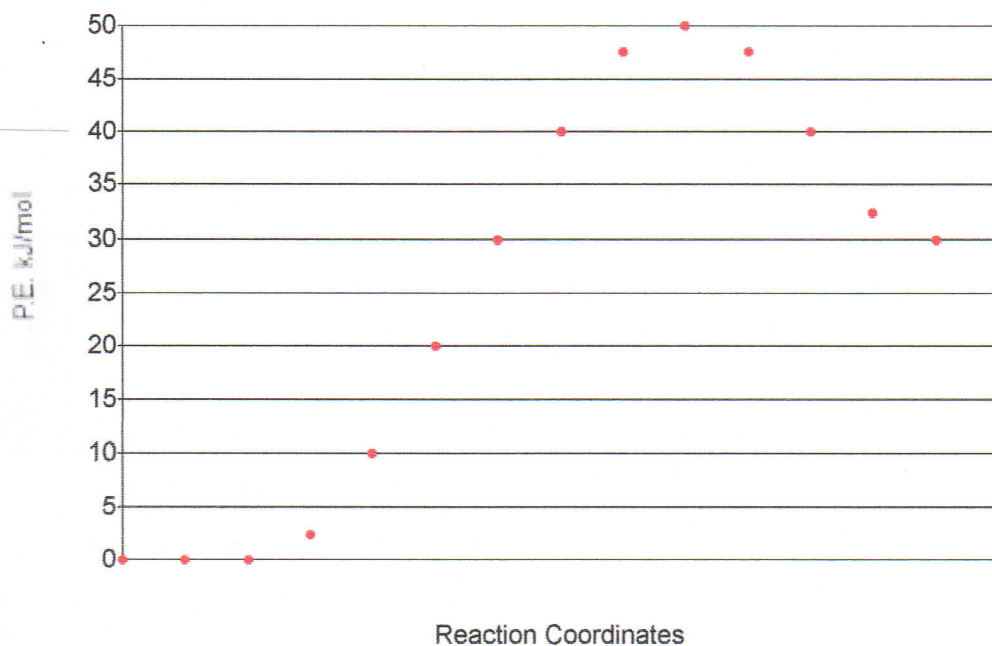


Diagram 3

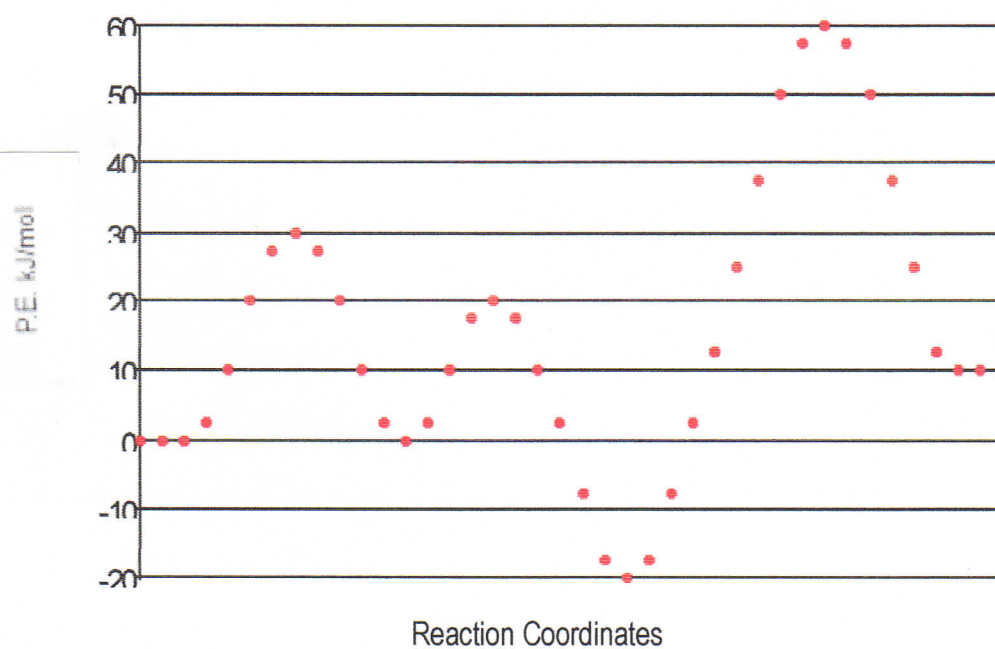


Diagram 4

