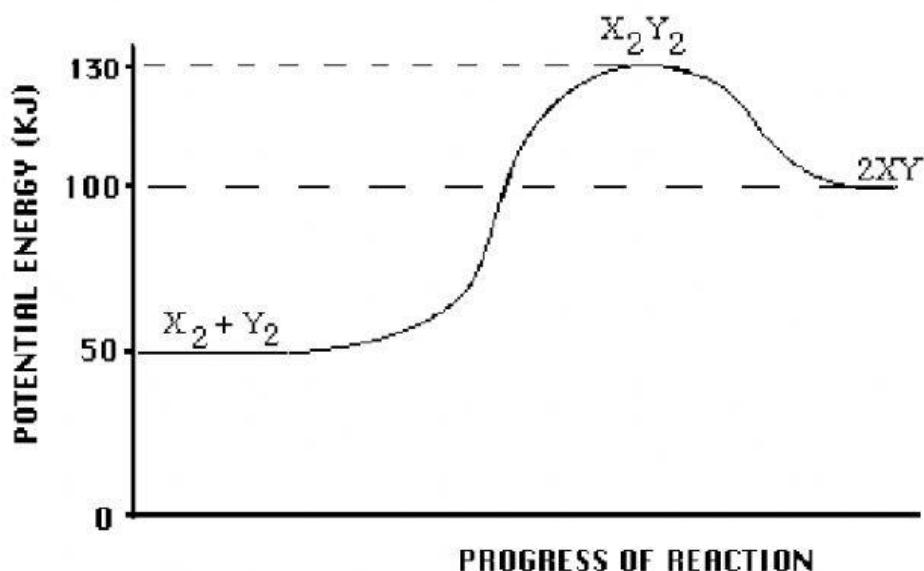


Worksheet 1-2 - Potential Energy Diagrams

USE THE POTENTIAL ENERGY DIAGRAM TO ANSWER THE QUESTIONS BELOW:



1. Is the overall reaction as shown **exothermic** or **endothermic**?

2. What is the **activation energy** for the forward reaction?

3. What is the **activation energy** for the reverse reaction?

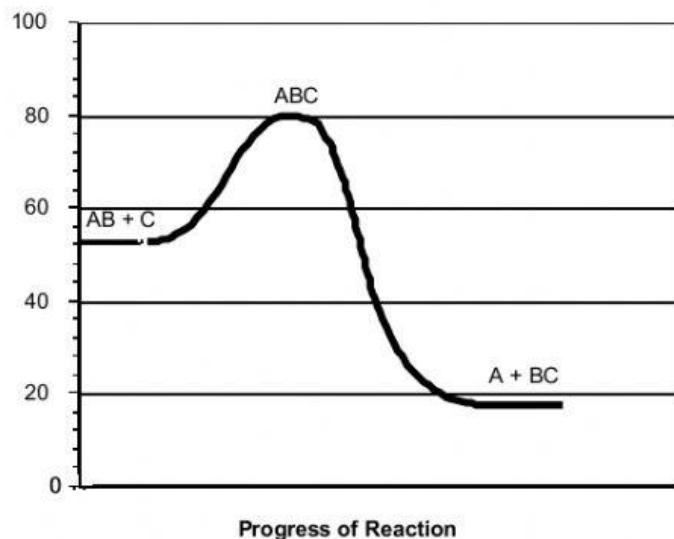
4. What is the **enthalpy change of reaction** (ΔH) for the *forward* reaction?

5. What is the ΔH for the *reverse* reaction?

6. Is the *reverse* reaction **exothermic** or **endothermic**?

7. Which species forms the **activated complex**?

Use the following **Potential Energy Diagram** to answer the questions below:



a) Determine the **Activation Energy** for the *forward* reaction... _____ kJ

b) Determine the **Activation Energy** for the *reverse* reaction.... _____ kJ

c) What is the **Enthalpy Change** (ΔH) for the *forward* reaction?.. _____ kJ

d) What is the **Enthalpy Change** (ΔH) for the *reverse* reaction?.. _____ kJ

e) The *forward* reaction is _____ thermic.

f) The *reverse* reaction is _____ thermic.

g) Which species or set of species forms the **Activated Complex**? _____