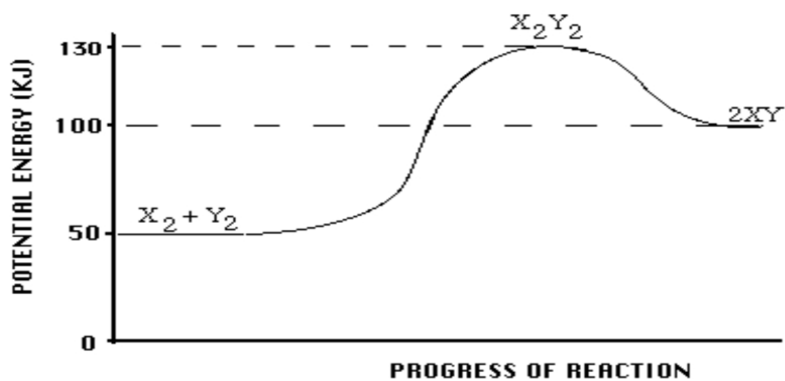


Chemistry 12  
Worksheet 1-2 - Potential Energy Diagrams

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** ( $\Delta H$ ) for the forward reaction? \_\_\_\_\_
5. What is the  $\Delta H$  for the reverse reaction? \_\_\_\_\_
6. Is the **reverse** reaction **exothermic** or **endothermic**? \_\_\_\_\_
7. Which species forms the **activated complex**? \_\_\_\_\_
8. Which species or set of species has the highest **potential energy**? \_\_\_\_\_