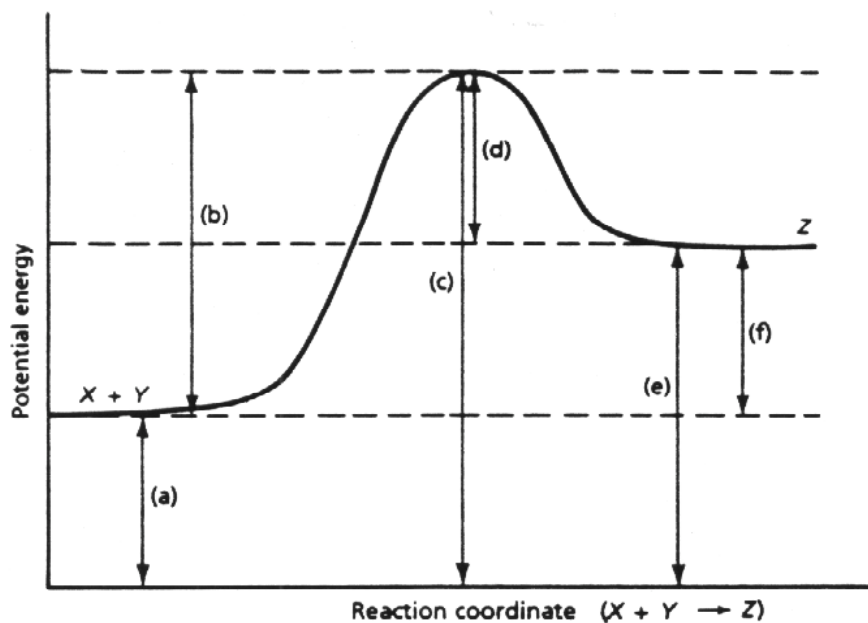


Energy Ws #2: Potential Energy Diagrams

Answer the questions by referring to the diagram of the potential energy of a reaction.



- | | |
|---|--------------|
| 1. Which of the letters (a) - (f) in the diagram represents the potential energy of the products? | 1. _____ |
| 2. Which letter indicates the potential energy of the activated complex? | 2. _____ |
| 3. Which letter indicates the potential energy of the reactants? | 3. _____ |
| 4. Which letter indicates the activation energy? | 4. _____ |
| 5. Which letter indicates the heat of reaction? | 5. _____ |
| 6. Is the reaction exothermic or endothermic? | 6. _____ |
| 7. Which letter indicates the activation energy of the reverse reaction? | 7. _____ |
| 8. Which letter indicates the heat of reaction of the reverse reaction? | 8. _____ |
| 9. Is the reverse reaction exothermic or endothermic? | 9. _____ |
| 10. A. If a catalyst were added, which lettered quantities, if any, would change? | 10. A. _____ |
| B. Would the activation energy increase, decrease, or remain unchanged? | B. _____ |
| C. Would the heat of reaction increase, decrease, or remain unchanged? | C. _____ |