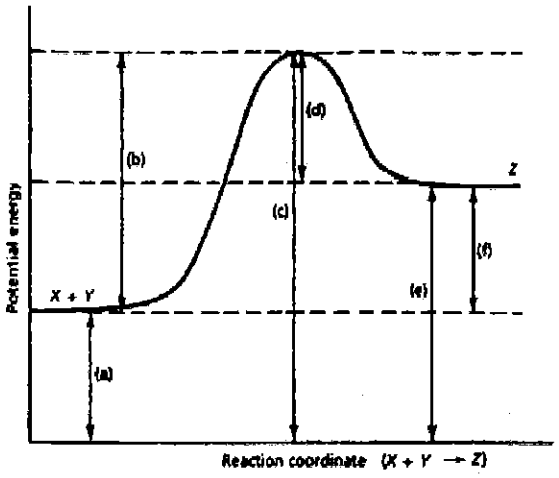
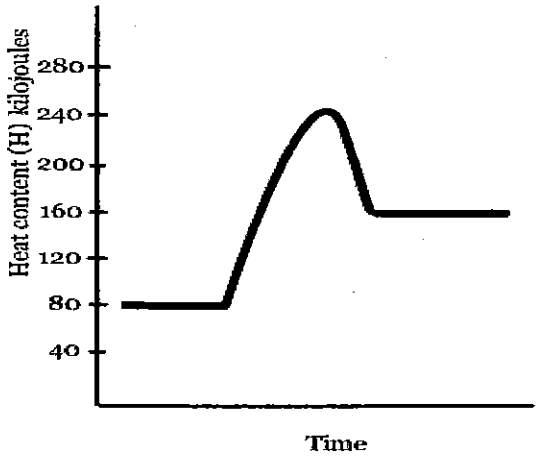
Potential Energy Diagram Worksheet



1. Which of the letters a–f in the diagram represents the potential energy of the products? _____
2. Which letter indicates the potential energy of the activated complex? _____
3. Which letter indicates the potential energy of the reactants? _____
4. Which letter indicates the activation energy? _____
5. Which letter indicates the heat of reaction? _____
6. Is the reaction exothermic or endothermic? _____
7. Which letter indicates the activation energy of the reverse reaction? _____
8. Which letter indicates the heat of reaction of the reverse reaction? _____
9. Is the reverse reaction exothermic or endothermic? ___



1. The heat content of the reactants of the forward reaction is about _____ kilojoules.
2. The heat content of the products of the forward reaction is about _____kilojoules.
3. The heat content of the activated complex of the forward reaction is about _____ kilojoules.
4. The activation energy of the forward reaction is about _____ kilojoules.
5. The heat of reaction (ΔH) of the forward reaction is about _____ kilojoules.
6. The forward reaction is _____ (endothermic or exothermic).
7. The heat content of the reactants of the reverse reaction is about _____ kilojoules.
8. The heat content of the products of the reverse reaction is about _____ kilojoules.
9. The heat content of the activated complex of the reverse reaction is about _____kilojoules.
10. The activation energy of the reverse reaction is about _____ kilojoules.
11. The heat of reaction (ΔH) of the reverse reaction is about _____ kilojoules.
12. The reverse reaction is _____ (endothermic or exothermic).