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Section Review 2-4

Chapter 2 The Chemistry of Life

Reviewing Key Concepts

Name

Completion *On the lines provided, complete the following sentences.*

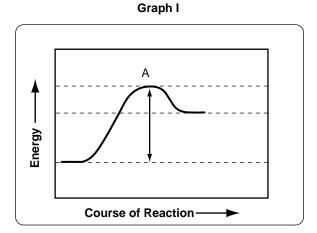
- 1. Chemical reactions that ______ energy often occur spontaneously.
- 2. During a chemical reaction, chemical bonds are _____
- **3.** Biological catalysts, or enzymes, act by lowering the ______ required for a reaction.
- 4. The reactants of an enzyme-catalyzed reaction are known as _____

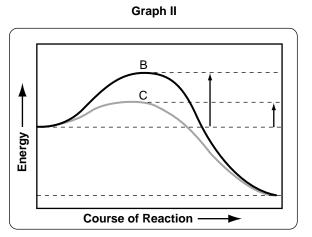
Defining Terms *On the lines provided, describe how the words in each set are related.*

- 5. catalyst, enzyme, activation energy
- 6. reactant, product, chemical reaction

Reviewing Key Skills

Interpreting Graphics Use the two diagrams of chemical reactions to answer questions 7 to 9.





- 7. Which pathway has the greatest activation energy?
- 8. Which graph shows a reaction that absorbs energy?
- 9. Why are two pathways shown in the graph on the right?
- **10. Forming a Hypothesis** Most enzymes in the human body work best at 37°C. Imagine scientists have discovered an enzyme in the body that works best at 39°C. What processes or functions might this enzyme be involved in?