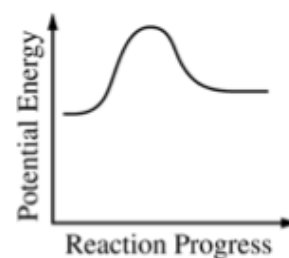
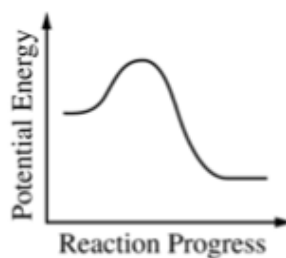
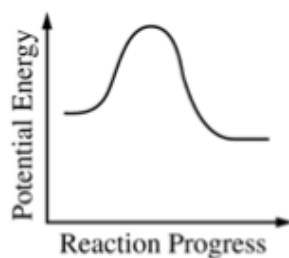
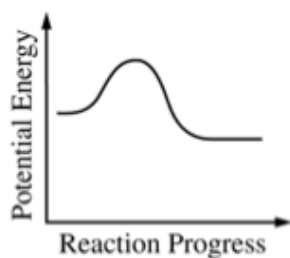


Directions: Read the passage below and answer the question(s) that follow.

## APQ 2006-6

Consider the four reaction-energy profile diagrams shown below.



- 1 Identify the two diagrams that could represent a catalyzed and an uncatalyzed reaction pathway for the same reaction. Indicate which of the two diagrams represents the catalyzed reaction pathway for the reaction.
- 2 Which of the diagrams would represent an endothermic reaction?
  - A. 1
  - B. 2
  - C. 3
  - D. 4
- 3 Which diagram represents a the most exothermic reaction?
  - A. 1
  - B. 2
  - C. 3
  - D. 4

Directions: Answer the following question(s).

- 4 Indicate whether you agree or disagree with the statement below. Support your answer with a short explanation.

"Adding a catalyst to a reaction mixture adds energy that causes the reaction to proceed more quickly."