REVIEW AND PRACTICE: COLLISION THEORY

- 1. Refer to the potential-energy diagram in figure 1.
 - (a) Which number labels the reactants?
 - (b) Which number labels the products?
 - (c) Which number labels the activated complex?
 - (d) Which letter labels the activation energy for the forward reaction?
 - (e) Which letter labels the activation energy for the reverse reaction?
 - (f) Which letter labels the enthalpy change?
 - (g) Is the forward reaction exothermic or endothermic?
 - (h) Is the reverse reaction exothermic or endothermic?



- (a) Is the forward reaction exothermic or endothermic?
- (b) What is the activation energy for the forward reaction?
- (c) What is the enthalpy change for the forward reaction?
- (d) Write the chemical equation for the forward reaction including an energy term.







Figure 2

3. Give two conditions that must be met for a collision to be effective.