Name:

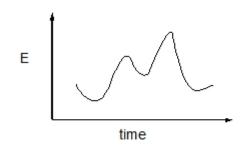
Organic I Lecture Spring 2011 Quiz #3 (10 points)

1. Use the provided table of bond dissociation enthalpies to calculate the overall enthalpy of the following reaction. (2 points, problem 4-40e)

2. Draw the major product of the following reaction. (3 points)

- 3. How many monochlorination products are possible from the reaction in problem #2? (1 point)
- 4. Add a (+) to the structure below to generate the most stable carbocation possible. (2 points)

5. Do the following for the energy profile diagram below. (3 points)



- a) Place a star above the transition state of the rate determining step. (1 point)
- b) What does the structure of the transition state of the rate determining step most closely resemble? (1 point)
- c) (Circle one) Overall this reaction is (endogonic / exogonic). (1 point)