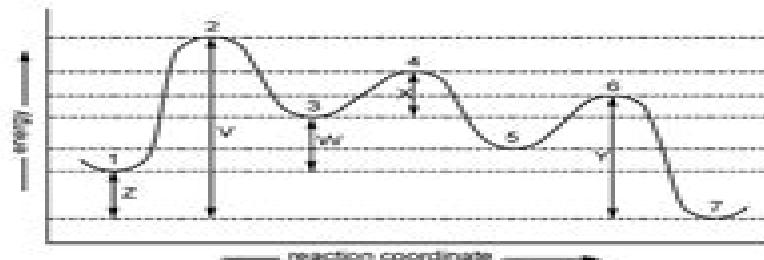


Name Answer Key

(106 points total)

Please select the best answer for each of the following questions. A homolytic bond dissociation energies table and a periodic table are attached for your reference.

Consider the reaction coordinate diagram, at right, in questions 1-8, below.



1. (2 pts) How many steps are in a reaction that corresponds to the above reaction coordinate diagram?

A) one B) two C) three D) four

2. (2 pts) How many intermediates are depicted in the above reaction coordinate diagram?

A) two B) three C) four D) five

3. (2 pts) What is structure 7 considered in the above reaction coordinate diagram?

A) starting material
B) intermediate
C) transition state
D) product

4. (3 pts) According to the above reaction coordinate diagram, which step is the rate-determining step (RDS)?

A) 1st step B) 2nd step C) 3rd step D) 4th step

5. (2 pts) What is the best description for the enthalpy change (ΔH°) for an overall reaction pertaining to the above reaction coordinate diagram, that is, for the forward reaction (i.e., left to right)?

A) endothermic B) exothermic

6. (2 pts) Which energy difference corresponds to the overall enthalpy change (ΔH°) for a reaction pertaining to the above reaction coordinate diagram?

A) V B) X C) Y D) Z

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N Colangelo

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