## Warm-Up #33 Name:_____Date:_____

**Use Figure 1 to answer the questions below.**

1. Which letter represents the activation energy of this reaction?
2. Calculate the value of activation energy.
3. Which letter represents the ΔH of the reaction?
4. Calculate the value of ΔH.
5. Is the reaction endothermic or exothermic? Explain your reasoning.

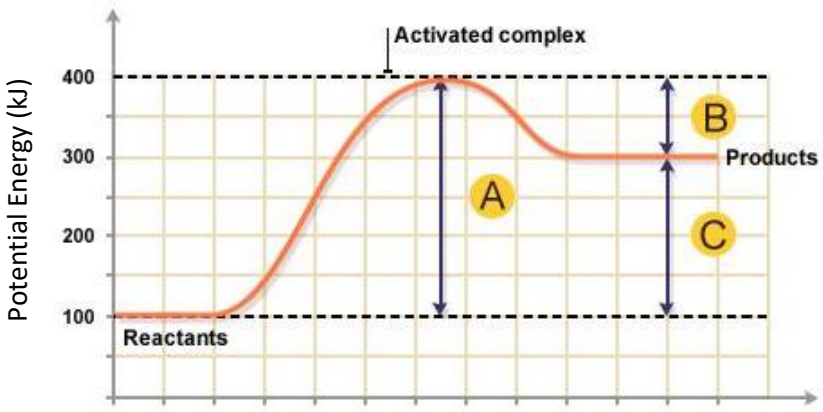


**Figure 1**


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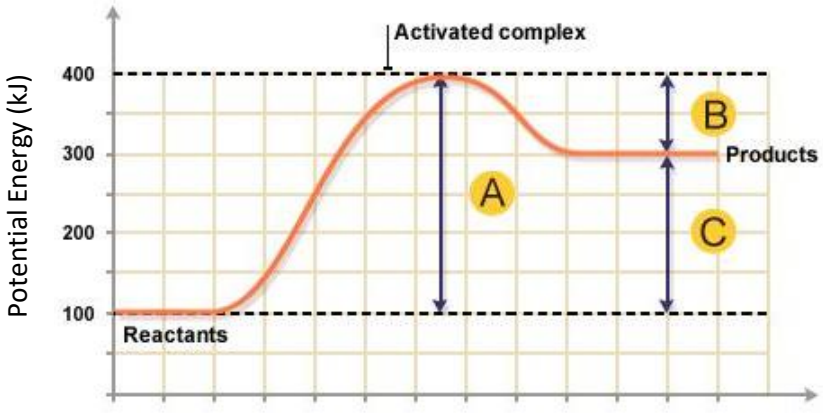


**Figure 1**

**Use Figure 2 to answer the questions below.**

6. Calculate the value of ΔH.

7. Calculate the value of activation energy.

8. Is the reaction endothermic or exothermic? Explain your reasoning.

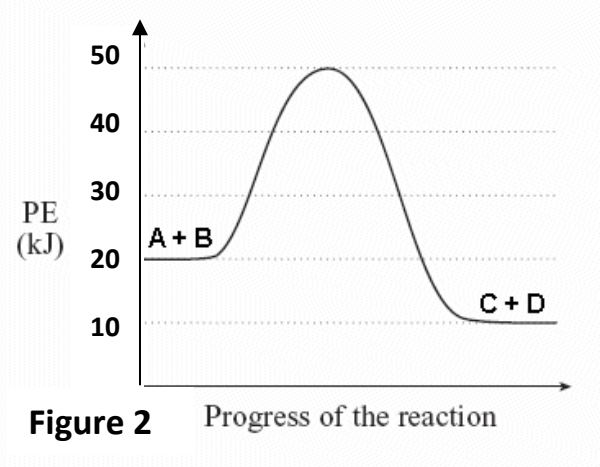


**Figure 2**

9. Which of the following would be a correct thermochemical equation for the reaction?
   a. A + B → C + D + 10 kJ
   b. A + B + 10 kJ → C + D
   c. A + B → C + D ΔH = + 10 kJ

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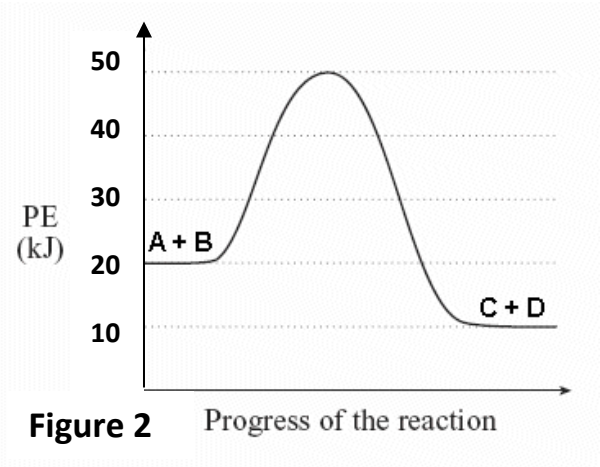


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