BRITISH COLUMBIA CHEMISTRY 12 (MCH--12) · UNIT A · 5 QUESTIONS

Reaction Rates — Practice Test

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1 **The diagram shows the energy profile for a reaction. Reactants are at 3, the peak is at 11, and products are at 7. The activation energy, in the diagram units, is ____**

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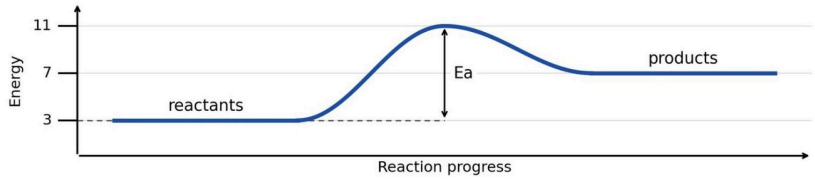

Question 1

The diagram shows the energy profile for a reaction. Reactants are at 3, the peak is at 11, and products are at 7. The activation energy, in the diagram units, is ____

ANSWER

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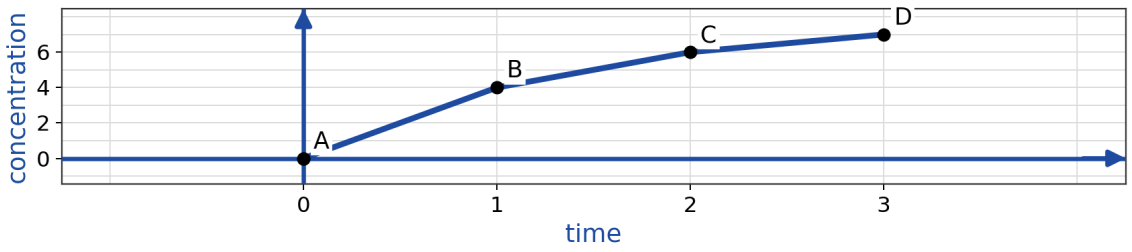
2 **The graph shows product concentration against time. Points are (0, 0), (1, 4), (2, 6), and (3, 7). During which time interval is product forming fastest**



- **A** 1 to 2 minutes
- **B** 0 to 1 minute
- **C** 2 to 3 minutes
- **D** The rate is constant

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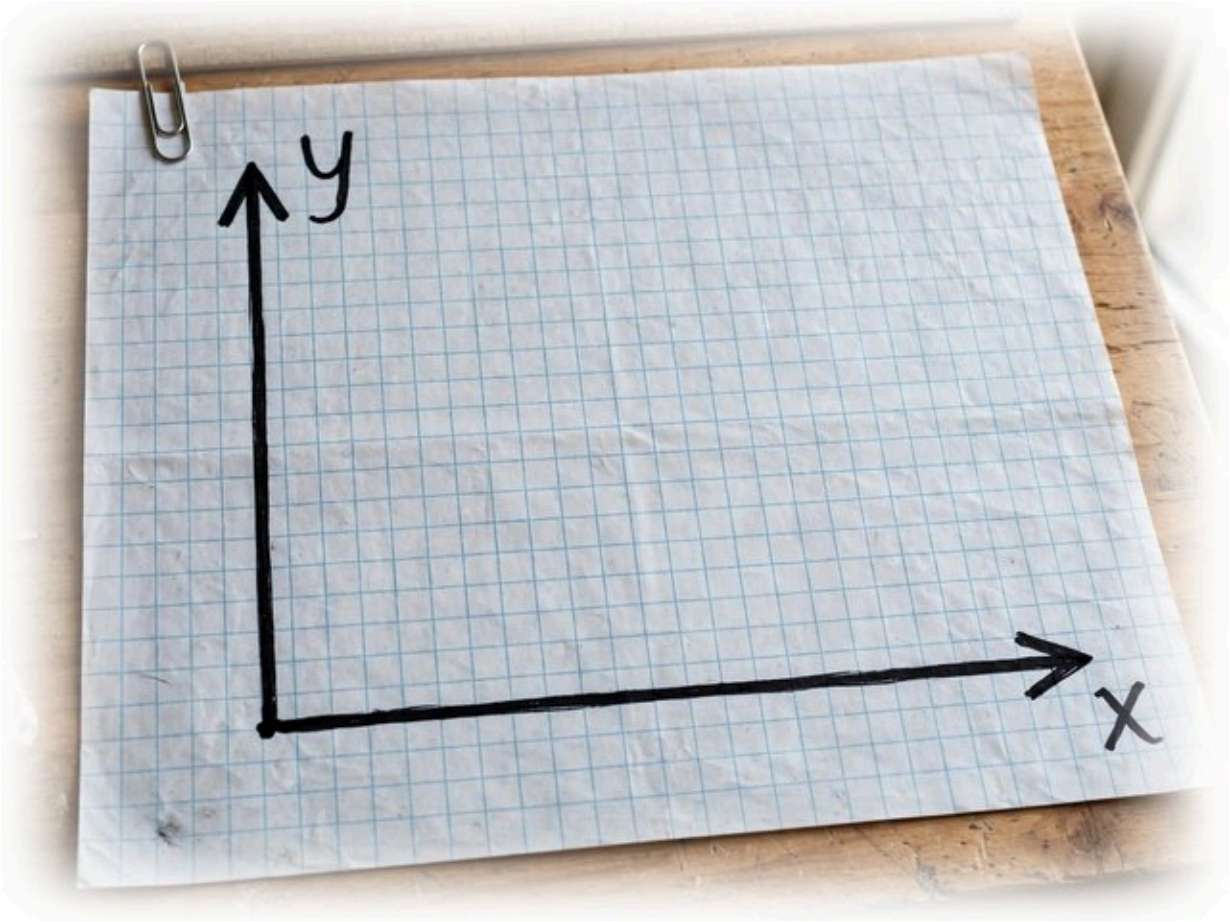
3 **A coordinate grid shows x and y axes. For a reaction with rate law rate = k[X]², halving [X] will**



A halve the rate

B double the rate

C reduce the rate to one quarter of its original value

D leave the rate unchanged

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4 **In an experiment, tripling [P] triples the initial rate. The order with respect to P is**

A 1

B 0

C 2

D 3

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5 **Which condition gives the fastest reaction between magnesium and acid**

A a magnesium block in cold, dilute acid

B magnesium ribbon in cold, dilute acid

C a magnesium block in warm, dilute acid

D magnesium ribbon in warm, concentrated acid

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ANSWER KEY

1. 8
2. B
3. C
4. A
5. D

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