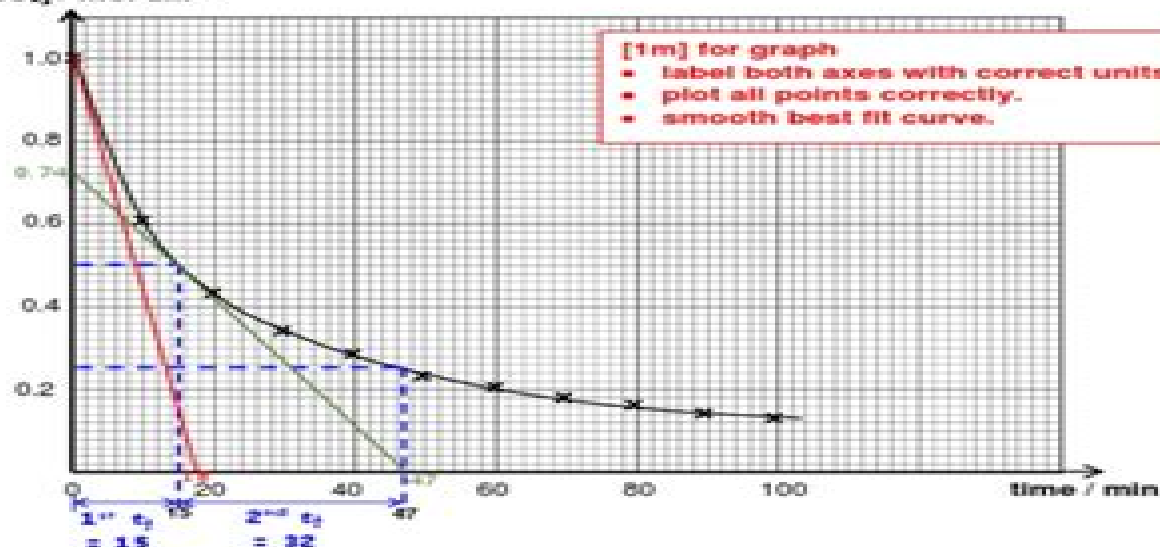


## Topic 6: Reaction Kinetics (Answers)

1 (a)

$[\text{NO}_2] / \text{mol dm}^{-3}$



[1m] Indicate and label values of two half lives clearly on the graph using construction lines

Since half-lives are not constant, the reaction is not first order. [1m]

(b) (i) Initial rate =  $\left| \frac{1.0}{18} \right| = \underline{0.0556 \text{ mol dm}^{-3} \text{ min}^{-1}}$  accept range of 0.0500 to 0.0625

[1m] tangent line drawn at  $t = 0$  + value in 3sf + units

(ii) rate when  $[\text{NO}_2] = 0.5 \text{ mol dm}^{-3} = \left| \frac{0.74}{47} \right| = \underline{0.0157 \text{ mol dm}^{-3} \text{ min}^{-1}}$

[1m] tangent line drawn at  $[\text{NO}_2] = 0.5 \text{ mol dm}^{-3}$  + value in 3sf + units

(c)

| $[\text{NO}_2] / \text{mol dm}^{-3}$ | rate / $\text{mol dm}^{-3} \text{ min}^{-1}$ |
|--------------------------------------|----------------------------------------------|
| 1.00                                 | 0.0556                                       |
| 0.50                                 | 0.0145                                       |

When  $[\text{NO}_2]$  increases to 2 times its original value, the rate increases to  $\approx 4$  times its original value. } [1m]

Therefore, the order of reaction with respect to  $[\text{NO}_2]$  is 2. [1m]

# Reaction Energy Reaction Kinetics Answers

**ML Morrison**



## Reaction Energy Reaction Kinetics Answers:

**Reaction Kinetics Based on Time-Energy Uncertainty Principle** Satoru Yamamoto, 2023-05-26 This book proposes a completely unique reaction kinetics theory based on the uncertainty principle of quantum mechanics the physical viewpoint and mathematical details for the theory construction are explained and abundant applications of the theory mainly in materials science are described The theory argues that physical systems on reaction are in a quantum mechanically uncertain state and that such systems will transition to new states after a finite duration time Based on this theory if the magnitude of the energy uncertainty i e energy fluctuation of the system on reaction can be determined we can calculate the reaction rates not only for the thermal activation processes but also for the non thermal activation process such as mechanical optical electromagnetic or other actions Therefore researchers or engineers who are involved in fields such as the discovery of new chemical substances development of materials innovation of manufacturing processes and also everyone purely interested in kinetic methodology find this book very stimulating and motivating *E3 Chemistry Review Book - 2018 Home Edition (Answer Key Included)* Effiong Eyo, 2017-10-20 With Answer Key to All Questions Chemistry students and homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Review Book 2018 With E3 Chemistry Review Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with solutions to study and follow Several practice multiple choice and short answer questions at the end of each lesson to test understanding of the materials 12 topics of Regents question sets and 3 most recent Regents exams to practice and prep for any Regents Exam This is the Home Edition of the book Also available in School Edition ISBN 978 197836229 The Home Edition contains an answer key section Teachers who want to recommend our Review Book to their students should recommend the Home Edition Students and parents whose school is not using the Review Book as instructional material as well as homeschoolers should buy the Home Edition The School Edition does not have answer key in the book A separate answer key booklet is provided to teachers with a class order of the book Whether you are using the school or Home Edition our E3 Chemistry Review Book makes a great supplemental instructional and test prep resource that can be used from the beginning to the end of the school year PLEASE NOTE Although reading contents in both the school and home editions are identical there are slight differences in question numbers choices and pages between the two editions Students whose school is using the Review Book as instructional material SHOULD NOT buy the Home Edition Also available in paperback print Reaction Kinetics and Reactor Design John B. Butt, 2000-01-03 This text combines a description of the origin and use of fundamental chemical kinetics through an assessment of realistic reactor problems with an expanded discussion of kinetics and its relation to chemical thermodynamics It provides exercises open ended situations drawing on

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**Energy Research Abstracts**, 1988

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mechanics explaining how to relate the process to diverse areas and see how data analysis and error bars are integral parts of science

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