

Pre-lab Questions for Experiment #5

Rates of Chemical Reactions I: A Clock Reaction

1) Complete and balance the following reactions:



2) The rate law for the reaction



is $\text{rate} = k[\text{H}_2][\text{NO}]^2$. Which of the following mechanisms can be ruled out on the basis of the observed rate expression?

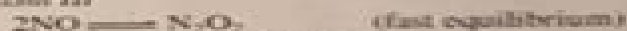
Mechanism I



Mechanism II



Mechanism III



3) Consider the reaction



From the following data obtained at a certain temperature, determine the order of the reaction and calculate the rate constant:

[A] (M)	[B] (M)	Rate (M/s)
1.50	1.50	3.20×10^{-1}
1.50	2.50	3.20×10^{-1}
3.00	1.50	6.40×10^{-1}

4) The following gas-phase reaction was studied at 290°C by observing the change in pressure as a function of time in a constant-volume vessel:



Determine the order of the reaction and the rate constant based on the following data:

Time (s)	Partial Pressure of $\text{ClCO}_2\text{CCl}_3$ (mmHg)
0	15.76
181	12.64
513	8.73
1164	4.44

Answer Of Pre Lab Rates Of Reaction

K Morrison



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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with

1Å 10 10 m where Å is an ångström according to anders jonas Ångström the term

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believe anything until they are shown proof

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web jun 18 2019 thomas the apostle often referred to as doubting thomas was one of the twelve main disciples of jesus
christ in the gospel of john thomas famously doubted jesus resurrection telling the other disciples unless i see the nail marks
in his hands and put my finger where the nails were and put my hand into his side

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john s depiction of the apostle thomas who in john s account refused to believe the resurrected jesus had appeared to the ten
other apostles until he could see and feel jesus s crucifixion wounds

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web britannica dictionary definition of doubting thomas count somewhat old fashioned someone who rarely trusts or believes things before having proof a doubtful or skeptical person she kept trying hoping to prove all those doubting thomases wrong

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web feb 5 2021 people who are skeptical are sometimes referred to as a doubting thomas thomas accomplishments the apostle thomas traveled with jesus and learned from him for three years church tradition holds that after jesus resurrected and ascended to heaven thomas carried the gospel message to the east and was eventually martyred for his faith

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web 27 then he said to thomas put your finger here see my hands reach out your hand and put it into my side stop doubting and believe 28 thomas said to him my lord and my god 29 then jesus told him because you have seen me you have believed blessed are those who have not seen and yet have believed