

# PHYSICAL SCIENCES P.2

# MEMO-2024



basic education

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Basic Education  
REPUBLIC OF SOUTH AFRICA

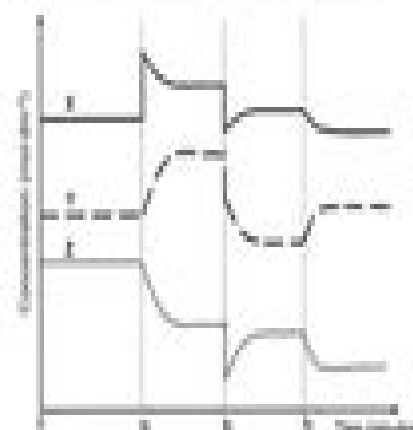
G.12

NATIONAL  
SENIOR CERTIFICATE

Diagram on page 9 is redrawn below for easy reference.



Changes to the conditions of equilibrium are made at different times. The graph shows the results obtained. X, Y and Z represent the gases in the above reaction.



2.1.1 Define for both chemical equilibrium

Use the graph to answer the questions below.

4.5 Write down the TYPE of elimination in reaction III.

4.6 Compounds R and T are positional isomers.

The inorganic reagents shown below are available for reactions IV and V.

|                 |                                        |           |     |                |
|-----------------|----------------------------------------|-----------|-----|----------------|
| Br <sub>2</sub> | H <sub>2</sub> SO <sub>4</sub> (conc.) | NaOH(aq.) | HBr | H <sub>2</sub> |
|-----------------|----------------------------------------|-----------|-----|----------------|

# 2014 Grade 12 Preliminary Physics Paper Memo

**John W. Morgan, Dusa  
McDuff, Mohammad Tehrani, Kenji  
Fukaya, Dominic Joyce**



## **2014 Grade 12 Preliminary Physics Paper Memo:**

**Virtual Fundamental Cycles in Symplectic Topology** John W. Morgan, Dusa McDuff, Mohammad Tehrani, Kenji Fukaya, Dominic Joyce, 2019-04-12 The method of using the moduli space of pseudo holomorphic curves on a symplectic manifold was introduced by Mikhail Gromov in 1985 From the appearance of Gromov's original paper until today this approach has been the most important tool in global symplectic geometry To produce numerical invariants of these manifolds using this method requires constructing a fundamental cycle associated with moduli spaces This volume brings together three approaches to constructing the virtual fundamental cycle for the moduli space of pseudo holomorphic curves All approaches are based on the idea of local Kuranishi charts for the moduli space Workers in the field will get a comprehensive understanding of the details of these constructions and the assumptions under which they can be made These techniques and results will be essential in further applications of this approach to producing invariants of symplectic manifolds *Scientific and Technical Aerospace Reports*, 1975 **Physical Science**,

## **2014 Grade 12 Preliminary Physics Paper Memo** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **2014 Grade 12 Preliminary Physics Paper Memo**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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