G11 PHYSICAL SCIENCE PAPER 1 REVISION

QUESTION 2 (Start on a new page.)

Three forces, P, Q and R, of magnitudes 800N, 200N and 600N respectively, act on a point O in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by CALCULATION

(B)

QUESTION 3 (Start on a new page.)

A constant force, F, pulls a 35kg block at a constant speed over a rough horizontal surface, AB, as shown in the diagram below. The coefficient of kinetic friction (μ_k) between the block and the surface is 0.4.



 Draw a labelled free-body diagram showing ALL the forces acting on the block. (4)

3.2 State Newton's first law of motion in words. (2)

Calculate the magnitude of the:

3.3 Force F (6)

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 - The Rise of Digital Reading Physical Science Paper 1 2011 Memo
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Paper 1 2011 Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an Physical Science Paper 1 2011 Memo
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Paper 1 2011 Memo
 - Personalized Recommendations
 - Physical Science Paper 1 2011 Memo User Reviews and Ratings
 - Physical Science Paper 1 2011 Memo and Bestseller Lists
- 5. Accessing Physical Science Paper 1 2011 Memo Free and Paid eBooks
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 - Physical Science Paper 1 2011 Memo Enhanced eBook Features
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 - o Adjustable Fonts and Text Sizes of Physical Science Paper 1 2011 Memo
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 - Benefits of a Digital Library
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 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper 1 2011 Memo
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