

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

(8)
[8]

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.



3.1 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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Artificial General Intelligence Ben Goertzel,Matt Iklé,Alexey Potapov,Denis Ponomaryov,2023-01-13 This book constitutes the refereed proceedings of the 15th International Conference on Artificial General Intelligence AGI 2022 held as a hybrid event in Seattle WA USA in August 2022 The 31 full papers presented in this book were carefully reviewed and selected from 61 submissions The papers cover topics from foundations of AGI to AGI approaches and AGI ethics to the roles of systems biology goal generation and learning systems and so much more Additionally this volume contains 13 posters [ERIC Educational Documents Index, 1966-69: Minor descriptors and author index](#) ,1970

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linguistic relativity hypothesis invariant sequencing and rate and form of cognitive development across the school years are also elaborated This text likewise covers the conditions contributing to rapid and slow cognitive development longitudinal intervention study and differences among concepts in age of attainment This publication is intended for individuals who are interested in the cognitive development of children and youth as well as upper division and graduate students in psychology educational psychology and education *Proceedings of the International Conference on Smart Materials, Structures and Systems* ,1999 National Union Catalog ,1958 Includes entries for maps and atlases **The National Union Catalog** ,1961 **Linguistics and Language Behavior Abstracts** ,2006-07 **Emerging Technologies for the Classroom** Chrystalla Mouza,Nancy Lavigne,2012-11-07 This book provides contemporary examples of the ways in which educators can use digital technologies to create effective learning environments that support improved learning and instruction These examples are guided by multiple conceptual and methodological traditions evolving from the learning sciences and instructional technology communities as well as other communities doing important work on learning technologies In particular the book provides examples of technology innovations and the ways in which educators can use them to foster deep understanding collaboration creativity invention and reflection Additional examples demonstrate the ways in which emerging mobile and networked technologies can help extend student learning beyond the confines of the classroom wall and support student directed learning and new media literacies *The Lincoln Library of Essential Information an Up to Date Manual for Daily Reference, for Self Instruction, and for General Culture Named in Appreciative Remembrance of Abraham Lincoln, the Foremost American Exemplar of Self Education* ,1924 **The National Cyclopaedia of American Biography** ,1906 Includes cumulative subject index of the entire set 1 v

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