

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43^\circ + \cos 47^\circ$ (1)

1.1.2 $\tan^2 50^\circ$ (1)

1.1.3 $\cot 33^\circ + \operatorname{cosec} 15^\circ$ (1)

1.2 If $A = 34,3^\circ$ and $B = 22,2^\circ$, calculate the following to two decimal places:

1.2.1 $\sin (A + B)$ (2)

1.2.2 $\sec \left(\frac{A}{2}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (1)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (1)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (1)

[12]

QUESTION 2

Without the use of a calculator, answer the following questions:

2.1 Given $\cos \theta = -\frac{1}{2}$ and $0^\circ \leq \theta \leq 180^\circ$
Use a diagram to determine the values of:

2.1.1 $\tan (180^\circ + \theta)$ (1)

2.1.2 $3\sin (\theta - 90^\circ)$ (2)

2.2 Simplify the following expression: $\frac{\sin (-230^\circ)}{\cos (260^\circ)} + \frac{\cos (90^\circ)}{\sin (260^\circ + 40^\circ)}$ (5)

2.3 Prove that: $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$ (4)

2.4 Determine the general solution for: $3\sin^2 \theta + 1 = \sin \theta$ (6)

[28]

QUESTION 3

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$ and $g(x) = \sin 2x$, for the interval $-90^\circ \leq x \leq 180^\circ$.

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of $\cos \theta - \cos \phi$, without the use of a calculator.



(5)
[10]

QUESTION 4

In the diagram below, the angle between line AB and the x-axis is β . The angle between line CD and the x-axis is θ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 2)$.

The intercept point E, of lines AB and CD lies on the y-axis. $\angle EDC = 63,69^\circ$

The equation of the line CD is given as: $3x + 2y = 6$



4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of α . (2)

4.3 Calculate the numerical value of β . (2)

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Rachel S Tattersall



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Intrinsic motivations and open-ended development in animals, humans, and robots

Gianluca Baldassarre, Tom Stafford, Marco Mirolli, Peter Redgrave, Richard Michael Ryan, Andrew Barto, 2015-02-10

The aim of this Research Topic for Frontiers in Psychology under the section of Cognitive Science and Frontiers in Neurorobotics is to present state of the art research whether theoretical empirical or computational investigations on open ended development driven by intrinsic motivations The topic will address questions such as How do motivations drive learning How are complex skills built up from a foundation of simpler competencies What are the neural and computational bases for intrinsically motivated learning What is the contribution of intrinsic motivations to wider cognition Autonomous development and lifelong open ended learning are hallmarks of intelligence Higher mammals and especially humans engage in activities that do not appear to directly serve the goals of survival reproduction or material advantage Rather a large part of their activity is intrinsically motivated behavior driven by curiosity play interest in novel stimuli and surprising events autonomous goal setting and the pleasure of acquiring new competencies This allows the cumulative acquisition of knowledge and skills that can later be used to accomplish fitness enhancing goals Intrinsic motivations continue during adulthood and in humans artistic creativity scientific discovery and subjective well being owe much to them The study of intrinsically motivated behavior has a long history in psychological and ethological research which is now being reinvigorated by perspectives from neuroscience artificial intelligence and computer science For example recent neuroscientific research is discovering how neuromodulators like dopamine and noradrenaline relate not only to extrinsic rewards but also to novel and surprising events how brain areas such as the superior colliculus and the hippocampus are involved in the perception and processing of events novel stimuli and novel associations of stimuli and how violations of predictions and expectations influence learning and motivation Computational approaches are characterizing the space of possible reinforcement learning algorithms and their augmentation by intrinsic reinforcements of different kinds Research in robotics and machine learning is yielding systems with increasing autonomy and capacity for self improvement artificial systems with motivations that are similar to those of real organisms and support prolonged autonomous learning Computational research on intrinsic motivation is being complemented by and closely interacting with research that aims to build hierarchical architectures capable of acquiring storing and exploiting the knowledge and skills acquired through intrinsically motivated learning Now is an important moment in the study of intrinsically motivated open ended development requiring contributions and integration across a large number of fields within the cognitive sciences This Research Topic aims to contribute to this effort by welcoming papers carried out with ethological psychological neuroscientific and computational approaches as well as research that cuts across disciplines and approaches

Information Theoretic Security

Carles Padró, 2014-01-22 This book constitutes the proceedings of the 7th International Conference on Information Theoretic Security ICITS 2013 held in Singapore in November 2013 The 14 papers presented in this volume were carefully reviewed and selected from 49

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