YEAR 12 HSC Extension 2 Mathematics

Half-Yearly Examination 2018

Due Date: 9th March 2018
Friday Week 6

Assessment Name: Half-Yearly Examination
Mark: /35
Weighting: 30%
Length: 70 minutes

SYLLABUS OUTCOMES TO BE ASSESSED:
E1 Appreciates the creativity, power and usefulness of mathematics to solve a broad range of problems
E2 Chooses appropriate strategies to construct arguments and proofs in both concrete and abstract settings
E3 Uses the relationship between algebraic and geometric representations of complex numbers
E4 Uses efficient techniques for the algebraic manipulation required in dealing with questions such as those involving polynomials
E6 Combines the ideas of algebra and calculus to determine the important features of the graphs of a wide variety of functions

DIRECTIVES TO BE ASSESSED:
Uses To achieve a solution by using mathematical processes
Appreciates To understand fully, grasp the full meaning of
Determines To establish exactly by calculation
Evaluates To find a numerical expression or equivalent for an equation, formula, or function
Communicates To share or exchange information or ideas
Solve To find the answer to mathematical problems
Choose To select from a number of possibilities; pick by preference
Combine To join or merge to form a single unit

TASK DESCRIPTION:
You will complete a 70 minute exam, with a five minutes reading time, covering the Extension 2 Mathematics topics listed below. Note Preliminary outcomes will be tested as a part of these topics.
A board approved formulae sheet is permissible.

The exam will consist of -
Mixed questions to a total of 35 marks

The topics assessed are:
- Complex Numbers
- Curve Sketching
- Polynomials
- Harder Applications of Extension 1 Topics

Equipment required:
- Board approved scientific calculator
- Pens, ruler, pencils

ASSESSMENT CRITERIA - STUDENT CHECKLIST:
- Have you revised these topics?
- Do you have all the equipment?
- Are you familiar with the formulae sheet and formulae you may need to learn?

Check your assessment booklet for the PHS Assessment Policy
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