

PICTON HIGH SCHOOL

Creating Opportunities Achieving Success



Year: 12 Subject: Advanced Mathematics

Due Date: Wednesday 27/3/24 Periods 1 & 2	Assessment Name: Open Book Exam
Mark: 100	Weighting (if applicable): 30%

TASK DESCRIPTION:

You are to complete the examination with the aid of your handwritten workbook.

No textbook or photocopied material is allowed to be brought into the examination unless previous agreed upon and discussed with your teacher.

A formula sheet will be provided.

The topics that will be assessed are:

- Chapter 2: Transformations of functions
- Chapter 3: Trigonometric functions
- Chapter 4: Further differentiation
- Chapter 5: Geometrical applications of differentiation
- Chapter 6: Integration

SYLLABUS OUTCOMES TO BE ASSESSED:

- MA12-1** **uses** detailed algebraic and graphical techniques to critically **construct, model** and **evaluate** arguments in a range of familiar and unfamiliar contexts
- MA12-3** **applies** calculus techniques to **model** and **solve** problems
- MA12-5** **applies** the concepts and techniques of periodic functions in the solution of problems involving trigonometric graphs
- MA12-6** **applies** appropriate differentiation methods to **solve** problems
- MA12-7** **applies** the concepts and techniques of indefinite and definite integrals in the solution of problems
- MA12-10** **constructs** arguments to **prove** and **justify** results and **provides** reasoning to **support** conclusions which are appropriate to the context

DIRECTIVES TO BE ASSESSED:

- Apply:** To use relevant information and skills for a given situation.
- Construct:** To create an argument or a sentence, by systematically arranging ideas or terms
- Evaluate:** To make a judgement based on criteria; determine the value of.
- Justify:** To provide evidence to support your solution.
- Model:** To give a representation of a mathematical problem obtained.
- Prove:** To provide logical evidence to support mathematical statements so support your mathematical claim.
- Provide:** To give a suitable solution or justification in context of the mathematical problem.
- Solve:** To manipulate something for a particular purpose to find the answer for mathematical problems.
- Support:** To provide evidence.
- Use:** To manipulate something for a particular purpose to solve mathematical problems.

ASSESSMENT CRITERIA AND STUDENT CHECKLIST

- Have you completed the chapters attached to this notification?
- Have you asked for additional help?
- Have you revised all content in the topics assessed?

Check your assessment booklet for the current PHS Assessment Policy procedures, located on the school's website. This includes information on submission dates, plagiarism, malpractice and the use of AI.