



**Stage 6, 2025**  
**Notice of Assessment Task**  
**HSC Course in *Mathematics Advanced***  
**Open-Book Test**

<b>Date of initial notification:</b> Monday 10 March 2025 Term 1, week 7	<b>Date of submission of task:</b> Monday 24 March 2025 Term 1, week 9
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<b>Teacher:</b> Ms Wai	<b>Task Number:</b> 2
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<b>Time Allowed:</b> 45 minutes	<b>Weighting of Task:</b> 20%
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<b>Course Component/Focus area/topic/module:</b> Functions – F2, T3 Calculus – C2.1, C2.2, C3.1, C3.2
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<b>Task Description:</b>  This open-book in-class test will consist of 11 short response question, Questions 1-5 will test your understanding of functions and totals 15 marks. Questions 6-11 requires you to solve a range of problems using calculus, in particular, differentiation. 15 marks will be allocated to these questions.  <b>Submission of Task:</b> You are required to complete and submit the test at the end of the allocated time.
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<b>Outcomes/Competencies to be assessed in this task:</b>  <b>MA12-1</b> Uses detailed algebraic and graphical techniques to critically construct, model and evaluate arguments in a range of familiar and unfamiliar contexts <b>MA12-3</b> applies calculus techniques to model and solve problems <b>MA12-5</b> applies the concepts and techniques of periodic functions in the solution of problems involving trigonometric graphs. <b>MA12-6</b> applies appropriate differentiation methods to solve problems <b>MA12-9</b> chooses and uses appropriate technology effectively in a range of contexts, models and applies critical thinking to recognise appropriate times for such use <b>MA12-10</b> constructs arguments to prove and justify results and provides reasoning to support conclusions which are appropriate to the context
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<b>Feedback: How will I receive feedback on this task?</b>  <input type="checkbox"/> Written <input type="checkbox"/> Verbal <input type="checkbox"/> Whole class
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<b>Marking Criteria</b> Each question will be allocated a mark and marks will be given based on the working out and solutions given by the student.
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- *If you are absent on the day that the task is due, you MUST see your teacher the next day (not your next lesson) that you are present at school to show your medical certificate or produce a misadventure form (refer to your Assessment Booklet for a copy of the form). If you fail to show a medical certificate, a mark of zero will be awarded and an N-Determination warning letter will be issued.*
- *Exemptions and extensions for any other reason will only be determined at the discretion of the Head Teacher, and only in extenuating circumstances. You must advise the Head Teacher as soon as possible if you know you are unable to submit the task on the due date.*
- *All appeals must be lodged within 48hrs of receipt of the task. Students who may consider an appeal are not permitted to take their task home. The original task cannot be altered in any way prior to the appeal process. See Assessment booklet for details.*