JOHN EDMONDSON HIGH SCHOOL
Assessment Notification

Faculty: Mathematics Course: Advanced Mathematics Year: 12

Assessment Task: 1

Assessment Weighting: 20% Due: Term 4 Week 8 Date: 2/12/2019

Task Type: Hand in Task ☐ In Class Task ☒ Practical Task ☐

<table>
<thead>
<tr>
<th>Outcomes assessed (NESA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA12-3, MA12-6, MA12-7, MA12-9, MA12-10</td>
</tr>
</tbody>
</table>

Task Description/Overview

Topic test - Calculus

Detailed Assessment Task Description

Differentiating trigonometric, logarithmic and exponential functions
First and second derivative, stationary points and concavity
Applications of the derivative
The anti-derivative and simple indefinite integrals along with the reverse chain rule, standard integrals and logarithms and exponentials

Test/Examination Structure

<table>
<thead>
<tr>
<th>Section Description</th>
<th>Marks Available</th>
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</thead>
<tbody>
<tr>
<td>Differentiating trigonometric, logarithmic and exponential functions</td>
<td>10</td>
</tr>
<tr>
<td>First and second derivative, stationary points, concavity and applications</td>
<td>10</td>
</tr>
<tr>
<td>The anti-derivative and simple indefinite integrals</td>
<td>10</td>
</tr>
</tbody>
</table>

Total Marks for this task 30

Satisfactory completion of courses

A course has been satisfactorily completed, when the student has:

• Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
• Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
• Achieved some or all of the course outcomes