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| **Name:**  **Sequence Number:**  **Teacher's Name:**  **Section:**  **Note: Only simple calculator is allowed.** |

***Note*: *The exam consists of 6 pages***

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| --- | --- |
| **Question** | **Mark** |
| **Question I** |  |
| **Question II** |  |
| **Question III** |  |
| **Total** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Question I:  Choose the correct answer, then fill in the table below:   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Question Number | 1 | 2 | 3 | 4 | 5 | | Answer |  |  |  |  |  |       (1) equals  (a) (b) (c) (d) None of the previous |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (2) equals  (a) (b) (c) 1 (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (3) equals  (a) (b) (c) (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (4) equals  (a) (b) (c) (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (5) If then equals  (a) (b) (c) (d) None of the previous |
| Question II:  A. Use logarithmic differentiation to find if .  B. Use the following reduction formula to evaluate |
| Question III:  Evaluate the following integrals  (1)  (2) |
| (3)        (4)    (5)  (6)  Good Luck☺ |