



**Suggested answers to 2015 O level Additional Mathematics (A Maths/ Add Maths) 4047 Paper 2 Part 1/3**

| Subject :                                                        | Date :                             |
|------------------------------------------------------------------|------------------------------------|
| 1. $y = f(x), f'(x) = 2e^x + e^{-2x}$                            |                                    |
| (i) Stationary point, $f'(x) = 0$                                |                                    |
| $2e^x + e^{-2x} = 0$                                             |                                    |
| Let $e^x = a$                                                    |                                    |
| $2a + a^{-2} = 0$                                                |                                    |
| $2a + \frac{1}{a^2} = 0$                                         |                                    |
| $2a^3 + 1 = 0$                                                   |                                    |
| $2a^3 = -1$                                                      |                                    |
| $a^3 = -\frac{1}{2}$                                             |                                    |
| $\therefore a^3 = -0.5$                                          |                                    |
| $\therefore e^x = -0.7937$                                       |                                    |
| $x = \ln(-0.7937) = \text{undefined}$                            |                                    |
| $\therefore f(x)$ has no stationary point                        |                                    |
| (ii) $\int f'(x) dx = \int 2e^x + e^{-2x} dx$                    | $\frac{d}{dx} e^{-2x} = -2e^{-2x}$ |
| $= 2 \int e^x dx + \int e^{-2x} dx$                              |                                    |
| $= 2e^x + C_1 + (-\frac{1}{2}) \int 2e^{-2x} dx$                 |                                    |
| $= 2e^x + C_1 - \frac{1}{2} (e^{-2x}) + C_2$                     |                                    |
| $= 2e^x - \frac{1}{2} e^{-2x} + C_2$                             |                                    |
| $(0, 2)$ :                                                       |                                    |
| $2 - \frac{1}{2} + C = 2$                                        |                                    |
| $-\frac{1}{2} + C = 0$                                           |                                    |
| $C = \frac{1}{2}$                                                |                                    |
| $\therefore y = f(x) = 2e^x - \frac{1}{2} e^{-2x} + \frac{1}{2}$ |                                    |
| 2i. $\frac{d}{dx} [\ln(\cos x)] = \frac{-\sin x}{\cos x}$        |                                    |
| $= -\tan x$ (shown).                                             |                                    |
| 2. $\frac{d}{dx} (x \tan x) = \tan x + x \sec^2 x$               |                                    |

# Higher Math 2015 Paper Answers

**Daniel F McAuley**



## **Higher Math 2015 Paper Answers:**

The Top Books of the Year Higher Math 2015 Paper Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Higher Math 2015 Paper Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Higher Math 2015 Paper Answers : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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**Table of Contents Higher Math 2015 Paper Answers**

1. Understanding the eBook Higher Math 2015 Paper Answers
  - The Rise of Digital Reading Higher Math 2015 Paper Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Higher Math 2015 Paper Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Higher Math 2015 Paper Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Math 2015 Paper Answers
  - Personalized Recommendations
  - Higher Math 2015 Paper Answers User Reviews and Ratings
  - Higher Math 2015 Paper Answers and Bestseller Lists
5. Accessing Higher Math 2015 Paper Answers Free and Paid eBooks
  - Higher Math 2015 Paper Answers Public Domain eBooks
  - Higher Math 2015 Paper Answers eBook Subscription Services
  - Higher Math 2015 Paper Answers Budget-Friendly Options
6. Navigating Higher Math 2015 Paper Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Higher Math 2015 Paper Answers Compatibility with Devices
  - Higher Math 2015 Paper Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Higher Math 2015 Paper Answers
  - Highlighting and Note-Taking Higher Math 2015 Paper Answers
  - Interactive Elements Higher Math 2015 Paper Answers
8. Staying Engaged with Higher Math 2015 Paper Answers

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Higher Math 2015 Paper Answers
9. Balancing eBooks and Physical Books Higher Math 2015 Paper Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Higher Math 2015 Paper Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Higher Math 2015 Paper Answers
- Setting Reading Goals Higher Math 2015 Paper Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Higher Math 2015 Paper Answers
- Fact-Checking eBook Content of Higher Math 2015 Paper Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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