



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 $e^x = a$	
$2a + a^{-2} = 0$	
$2a + \frac{1}{a^2} = 0$	
$2a^3 + 1 = 0$	
$2a^3 = -1$	
$a^3 = -\frac{1}{2}$	
$\therefore a^3 = -0.5$	
$\therefore e^x = -0.5$	
$x = \ln(-0.5) = \text{undefined}$	
$\therefore f(x)$ 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

Clifford Lane



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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

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web may 17 2021 prisoners carry out a revolt in sobibor they kill nearly a dozen german staff and trawniki trained guards of 600 prisoners left in sobibor on this day 300 escape during the uprising among the survivors is alexander pechersky the soviet pow who played a key role in planning the revolt

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sobibor during the initial phase of killing was franz stangl

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web feb 24 2020 it was here that about 200 000 jewish prisoners were killed sobibor is the 4th deadliest extermination camp that existed during the nazi regime and the holocaust eclipsed only by the camps at auschwitz treblinka and belzec the uprising of the sobibor prisoners on october 14 1943 a prisoner revolt took place

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extermination camp in october 1943

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web aug 24 2019 it existed from its moment of creation solely to kill human beings up to 350 000 jewish people are believed to have been ravaged killed and disposed of at the sobibór death camp miraculously hundreds of them fought back and 60 jews managed to escape the death camp but sadly their stories from sobibór remain largely unknown

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