

11. With the help of Maclaurin's series expand $\tan^{-1} x$ or $(1+x)^n$. 4
 12. Find the equation of the tangent of the hyperbola $x^2 - y^2 = 16$ through the point (2, -2). 4

Or,

Find the abscissa of the points on the curve $y = x^3 - 3x^2 - 2x + 1$ where its tangents make equal angles with the axes of co-ordinates.

13. Integrate : (any two) -

2×2.5=5

i) $\int \sin^4 x \, dx$

ii) $\int \frac{1}{(x-3)\sqrt{x+1}} \, dx$

iii) $\int \frac{x}{\sqrt{4+x}} \, dx$

iv) $\int e^{5x} \left\{ 5 \ln x + \frac{1}{x} \right\} \, dx$

14. Find the value of : (any two)

i) $\int_1^4 \frac{\ln x}{\sqrt{x}} \, dx$

ii) $\int_0^{\pi/4} \frac{1}{1+\sin x} \, dx$

iii) $\int_0^a \sqrt{a^2 - x^2} \, dx$

iv) $\int_8^{27} \frac{dx}{x-x^{1/3}}$

Or,

Show that the area of the plane enclosed by the parabola

$y^2 = 4ax$ and $x^2 = 4ay$ is $\frac{16a^2}{3}$

Group – C Discrete Mathematics

15. Find graphically the maximum value of $z = 3x + 4y$
 conditions :

5

$$\begin{aligned} x + y &\leq 7 \\ 2x + 5y &\leq 20 \\ x &\geq 0 \\ y &\geq 0 \end{aligned}$$

Or,

The protein and carbohydrate constituents and the price per kilogram of two kinds of diets A and B are as follows

Type of food	Protein	Carbohydrate	Price Per kg
A	8	10	Tk. 40
B	12	6	Tk. 50
Minimum daily requirements	32	22	

Determine how can the minimum requirements be satisfied at the least cost.

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Table of Contents Mathematics Suggestion Jsc2014

1. Understanding the eBook Mathematics Suggestion Jsc2014
 - The Rise of Digital Reading Mathematics Suggestion Jsc2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Suggestion Jsc2014
 - 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 Mathematics Suggestion Jsc2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Suggestion Jsc2014
 - Personalized Recommendations
 - Mathematics Suggestion Jsc2014 User Reviews and Ratings
 - Mathematics Suggestion Jsc2014 and Bestseller Lists
5. Accessing Mathematics Suggestion Jsc2014 Free and Paid eBooks
 - Mathematics Suggestion Jsc2014 Public Domain eBooks
 - Mathematics Suggestion Jsc2014 eBook Subscription Services
 - Mathematics Suggestion Jsc2014 Budget-Friendly Options

6. Navigating Mathematics Suggestion Jsc2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Suggestion Jsc2014 Compatibility with Devices
 - Mathematics Suggestion Jsc2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Suggestion Jsc2014
 - Highlighting and Note-Taking Mathematics Suggestion Jsc2014
 - Interactive Elements Mathematics Suggestion Jsc2014
8. Staying Engaged with Mathematics Suggestion Jsc2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Suggestion Jsc2014
9. Balancing eBooks and Physical Books Mathematics Suggestion Jsc2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Suggestion Jsc2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Suggestion Jsc2014
 - Setting Reading Goals Mathematics Suggestion Jsc2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Suggestion Jsc2014
 - Fact-Checking eBook Content of Mathematics Suggestion Jsc2014
 - 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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