5. a. Find
$$\frac{dy}{dx}$$
 when $x = 2at$ and $y = 2at^2$

(b) Evaluate:
$$\int \sin 2x \cdot \sin 3x \, dx$$

Determine the interval in which the function
$$f(x) = \frac{1}{2}x^2 - x$$
 is increasing or decreasing.

$$5\times2\times4=40$$

6. a. For any non-empty subsets A,B,C of universal set U, prove that:
$$A-(B\cup C)=(A-B)\cap (A-C)$$

Define absolute value of a real number. Also prove that
$$|x|-|y| \le |x+y|, \forall x, y \in \Re$$

b. Sketch the graph of
$$f(x) = (x-1)^3$$
 indicating its characteristics.

7. a. Solve for general values of
$$\theta$$
:

$$\sin\theta + \sin 2\theta + \sin 3\theta = \cos\theta + \cos 2\theta + \cos 3\theta$$

If
$$a=2$$
, $b=\sqrt{6}$ and $c=\sqrt{3}-1$, find the angles of the triangle ABC.

Brove that:
$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ac & bc & c^2+1 \end{vmatrix} = 1 + a^2 + b^2 + c^2$$

$$x-y=0$$
, $2x-y+4z=18$, $-3x+z+2=0$

b. Find the equation whose roots are reciprocal of the roots of
$$x^2 - x + I = 0$$

(9. a. Prove that the circles
$$x^2 + y^2 + 2ax + c^2 = 0$$
 and $x^2 + y^2 + 2by + c^2 = 0$

touch each other if
$$\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$$

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Table of Contents Maths Question Paper 2june Exam

- 1. Understanding the eBook Maths Question Paper 2june Exam
 - The Rise of Digital Reading Maths Question Paper 2june Exam
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Question Paper 2june Exam
 - 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 Maths Question Paper 2june Exam
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Question Paper 2june Exam
 - Personalized Recommendations

- Maths Question Paper 2june Exam User Reviews and Ratings
- Maths Question Paper 2june Exam and Bestseller Lists
- 5. Accessing Maths Question Paper 2june Exam Free and Paid eBooks
 - Maths Question Paper 2june Exam Public Domain eBooks
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- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Maths Question Paper 2june Exam
 - Highlighting and Note-Taking Maths Question Paper 2june Exam
 - Interactive Elements Maths Question Paper 2june Exam
- 8. Staying Engaged with Maths Question Paper 2june Exam
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Paper 2june Exam
- 9. Balancing eBooks and Physical Books Maths Question Paper 2june Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question Paper 2june Exam
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper 2june Exam
 - Setting Reading Goals Maths Question Paper 2june Exam
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper 2june Exam
 - Fact-Checking eBook Content of Maths Question Paper 2june Exam

- 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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