

Duration: _____ 2 hour 30 min
(4 × 4 = 16)

1. Solve the following simultaneous equation :

~~a)~~ $5x + 3y = 15$

$3y - x = 3$

~~b)~~ $5x - y = 2$

$4y^2 + 4xy - 4x^2 - 1 = 0$

~~c)~~ $2^x - 5^x = 3$; $2^{x-3} = 21 - 5^{x-2}$

d) $\log_2(x - 4y) = 4$ and $\log_8 4x - \log_8(8y + 5) = 1$

2. Simplify each of the following without using calculator :

(3 × 3 = 9)

~~a)~~ $\frac{x^2 + 3\sqrt{x}}{4 - 2\sqrt{x}} + \frac{3 - \sqrt{x}}{4 - 2\sqrt{x}}$

b) $\lg(3x + 2) - 2 \lg x = 1 - \lg(5x - 3)$

c) $2 \log_2 \frac{2}{3} + \log_2 \frac{81}{8} - 2 \log_2 \frac{3}{4}$

3. The sum of first
- n
- terms of the A.P. 12,
- $13\frac{1}{2}$
- , 15, ... is the same as the sum of the first
- n
- terms of the A.P. 3, 7, 11, ... Calculate the value of
- n
- .
-
- (5)

4. a) Find in terms of
- n
- ,
- $\sum_{r=1}^n (5r - 2)$
- .

(6)

- b) Given that
- $\sum_{r=1}^n (5r - 2) = 648$
- , Find the value of
- n
- .

5. a) If
- $(x - 3)$
- is a factor of the expression
- $x^3 - x^2 + ax + 9$
- , find the value of
- a
- and hence, factorize completely.
-
- (5)

- b) The remainder of
- $x^4 + ax^3 + bx^2 + 6$
- , when it is divided by
- $(x - 1)$
- and
- $(x - 2)$
- , are 12 and 54 respectively. Find the values of
- a
- and
- b
- . Hence, find the remainder when the expression is divided by
- $x + 1$
- .
-
- (6)

6. Leo Ronald starts his new job on a salary of \$ 15000. He promised rises of \$1000 a year, at the end of every year, until he reaches his maximum salary of \$ 25000. Find his total earnings (since appointed) after A) 8 years with the firm and b) 14 years with the firm.
-
- (6)

7. Solve the equation
- $2x^3 + 11x^2 - 7x - 6 = 0$
- , giving the solutions to 2 decimal places where necessary. (Must show all of your workings)
-
- (4)

8. Find the value of
- k
- for which
- $(x + 2)$
- is a factor of
- $(x + 1)^5 + (5x + k)^3$
- .
-
- (3)

- 9.
- $(x + 2)$
- is a factor of
- $f(x) = a(x - 1)^2 + b(x - 1) + c$
- . the remainder when
- $f(x)$
- is divided by
- $x + 1$
- and
- $x - 1$
- are -11 and 9 respectively. Find the values of
- a
- ,
- b
- and
- c
- .
-
- (6)

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Clemens Wendtner



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Department of Science and Mathematics Education. International Conference, 2004 *The Navy List*, 1959 *Eminent
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Table of Contents **O Level Add Maths Papers June 23**

1. Understanding the eBook O Level Add Maths Papers June 23
 - The Rise of Digital Reading O Level Add Maths Papers June 23
 - Advantages of eBooks Over Traditional Books
2. Identifying O Level Add Maths Papers June 23
 - 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 O Level Add Maths Papers June 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Add Maths Papers June 23
 - Personalized Recommendations
 - O Level Add Maths Papers June 23 User Reviews and Ratings
 - O Level Add Maths Papers June 23 and Bestseller Lists

5. Accessing O Level Add Maths Papers June 23 Free and Paid eBooks
 - O Level Add Maths Papers June 23 Public Domain eBooks
 - O Level Add Maths Papers June 23 eBook Subscription Services
 - O Level Add Maths Papers June 23 Budget-Friendly Options
6. Navigating O Level Add Maths Papers June 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - O Level Add Maths Papers June 23 Compatibility with Devices
 - O Level Add Maths Papers June 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of O Level Add Maths Papers June 23
 - Highlighting and Note-Taking O Level Add Maths Papers June 23
 - Interactive Elements O Level Add Maths Papers June 23
8. Staying Engaged with O Level Add Maths Papers June 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers O Level Add Maths Papers June 23
9. Balancing eBooks and Physical Books O Level Add Maths Papers June 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection O Level Add Maths Papers June 23
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine O Level Add Maths Papers June 23
 - Setting Reading Goals O Level Add Maths Papers June 23
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of O Level Add Maths Papers June 23
 - Fact-Checking eBook Content of O Level Add Maths Papers June 23
 - 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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