

Level 2 Certificate

Name: _____

FURTHER MATHEMATICS

Predicted Paper 2

Total = 80 marks

Calculator Allowed

Time Allowed: 1 hour 45 minutes

1 $f(x) = x^2 - 4x + 3 \quad x \geq 0$

$g(x) = x - 3 \quad x \geq 0$

$h(x) = \frac{x}{3x+2} \quad x > -2/3$

(a) Find the range for $f(x)$

$f(x) = (x-2)^2 - 1 \quad \text{min} = (2, -1) \quad f(x) \geq -1$ [3 marks]

(b) Solve $fg(x) = 0$

$fg(x) = (x-3)^2 - 4(x-3) + 3$
 $= x^2 - 6x + 9 - 4x + 12 + 3$
 $x^2 - 10x + 24 = 0$ [3 marks]

(c) Find $h^{-1}(x)$

$y = \frac{x}{3x+2}, x = \frac{y}{3y+2} \quad x(3y+2) = y$
 $3xy + 2x = y$
 $y(3x-1) = -2x$
 $y = \frac{-2x}{3x-1} \quad \text{so } h^{-1}(x) = \frac{-2x}{3x-1} \text{ or } \frac{2x}{1-3x}$ [3 marks]

2 (a) Factorise fully $(5x - 2y)^2 - (x + 6y)^2$

D.O.T.S $(5x-2y+x+6y)(5x-2y-x-6y)$
 $(6x+4y)(4x-8y)$
 $2(3x+2y) \cdot 4(x-2y) = 8(3x+2y)(x-2y)$ [3 marks]

(b) Factorise fully $(x+5)^2 - 4(x+5)^2$

$(x+5)^2(x+5-4)$
 $(x+5)^2(x+1)$ [3 marks]

3 $\sin x = k$, where x is an obtuse angle

Find the value of $\cos x$ in terms of k .

$\sin^2 x + \cos^2 x = 1$
 $k^2 + \cos^2 x = 1$
 $\cos^2 x = 1 - k^2$



$\cos x = \pm \sqrt{1 - k^2}$

But x is obtuse (see graph)
 $\therefore \cos x < 0$
 $\cos x = -\sqrt{1 - k^2}$ [2 marks]

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Barbiero,Dmitry Korzun**



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Table of Contents Pixl Further Maths Papers Predicted

1. Understanding the eBook Pixl Further Maths Papers Predicted
 - The Rise of Digital Reading Pixl Further Maths Papers Predicted
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Further Maths Papers Predicted
 - 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 Pixl Further Maths Papers Predicted
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Further Maths Papers Predicted
 - Personalized Recommendations
 - Pixl Further Maths Papers Predicted User Reviews and Ratings
 - Pixl Further Maths Papers Predicted and Bestseller Lists
5. Accessing Pixl Further Maths Papers Predicted Free and Paid eBooks
 - Pixl Further Maths Papers Predicted Public Domain eBooks
 - Pixl Further Maths Papers Predicted eBook Subscription Services
 - Pixl Further Maths Papers Predicted Budget-Friendly Options
6. Navigating Pixl Further Maths Papers Predicted eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Further Maths Papers Predicted Compatibility with Devices
 - Pixl Further Maths Papers Predicted Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Further Maths Papers Predicted
 - Highlighting and Note-Taking Pixl Further Maths Papers Predicted
 - Interactive Elements Pixl Further Maths Papers Predicted
8. Staying Engaged with Pixl Further Maths Papers Predicted

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Pixl Further Maths Papers Predicted
- 9. Balancing eBooks and Physical Books Pixl Further Maths Papers Predicted
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Further Maths Papers Predicted
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Further Maths Papers Predicted
 - Setting Reading Goals Pixl Further Maths Papers Predicted
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Further Maths Papers Predicted
 - Fact-Checking eBook Content of Pixl Further Maths Papers Predicted
 - 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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