

1.(a)  $f(x) = x^3 - x^2 - 14x + 24$  Factor  $(x + 4)$

(i)  $(x + 4)\sqrt{x^3 - x^2 - 14x + 24}$

Through Synthetic Division

$$\begin{array}{r|rrrr} -4 & 1 & -1 & -14 & 24 \\ & & -4 & 20 & -24 \\ \hline & 1 & -5 & 6 & 0 \end{array}$$

Since the Remainder is Zero we can conclude that  $(x + 4)$  is a factor of  $f(x)$ .

(ii) The other linear factors can be found from the quadratic expression.

$$(x + 4)(x^2 - 5x + 6)$$

Factorize:  $(x^2 - 5x + 6)$

$$(x^2 - 2x)(-3x + 6)$$

$$x(x - 2) - 3(x - 2)$$

$$(x - 2)(x - 3)$$

Therefore there are 3 factors.

$$(x + 4)(x - 2)(x - 3)$$

(b) Given  $f(x) = \frac{2x - 1}{x + 2}$

(i) Inverse  $f^{-1}(x)$

$$f(x) = \frac{2x - 1}{x + 2}$$

$$y = \frac{2x - 1}{x + 2}$$

$$x = \frac{2y - 1}{y + 2}$$

$$x(y + 2) = 2y - 1$$

$$xy + 2x = 2y - 1$$

$$xy - 2y = -1 - 2x$$

$$y(x - 2) = -1 - 2x$$

$$y = \frac{-1 - 2x}{x - 2}$$

$$f^{-1} = \frac{-1 - 2x}{x - 2}$$

(ii)  $f(x) = \frac{2x - 1}{x + 2}; g(x) = x + 1$

$$fg(x) = \frac{2(x + 1) - 1}{(x + 1) + 2}$$

$$fg(x) = \frac{2x + 2 - 1}{x + 1 + 2}$$

$$fg(x) = \frac{2x + 1}{x + 3}$$

(c) Given  $5^{3x-2} = 7^{x+2}$  Show that

$$x = \frac{2(\log 5 + \log 7)}{(\log 125 - \log 7)}$$

$$5^{3x-2} = 7^{x+2}$$

$$(3x - 2) \log 5 = (x + 2) \log 7$$

$$3x \log 5 - 2 \log 5 = x \log 7 + 2 \log 7$$

$$3x \log 5 - x \log 7 = 2 \log 7 + 2 \log 5$$

$$x(3 \log 5 - \log 7) = 2(\log 7 + \log 5)$$

$$x = \frac{2(\log 7 + \log 5)}{(3 \log 5 - \log 7)}$$

$$x = \frac{2(\log 5 + \log 7)}{(\log 125 - \log 7)}$$

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## **Table of Contents Xtrem Papers Add Maths 2013**

1. Understanding the eBook Xtrem Papers Add Maths 2013
  - The Rise of Digital Reading Xtrem Papers Add Maths 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Xtrem Papers Add Maths 2013
  - 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 Xtrem Papers Add Maths 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Xtrem Papers Add Maths 2013
  - Personalized Recommendations
  - Xtrem Papers Add Maths 2013 User Reviews and Ratings
  - Xtrem Papers Add Maths 2013 and Bestseller Lists
5. Accessing Xtrem Papers Add Maths 2013 Free and Paid eBooks
  - Xtrem Papers Add Maths 2013 Public Domain eBooks
  - Xtrem Papers Add Maths 2013 eBook Subscription Services
  - Xtrem Papers Add Maths 2013 Budget-Friendly Options

6. Navigating Xtrem Papers Add Maths 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Xtrem Papers Add Maths 2013 Compatibility with Devices
  - Xtrem Papers Add Maths 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Xtrem Papers Add Maths 2013
  - Highlighting and Note-Taking Xtrem Papers Add Maths 2013
  - Interactive Elements Xtrem Papers Add Maths 2013
8. Staying Engaged with Xtrem Papers Add Maths 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Xtrem Papers Add Maths 2013
9. Balancing eBooks and Physical Books Xtrem Papers Add Maths 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Xtrem Papers Add Maths 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Xtrem Papers Add Maths 2013
  - Setting Reading Goals Xtrem Papers Add Maths 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Xtrem Papers Add Maths 2013
  - Fact-Checking eBook Content of Xtrem Papers Add Maths 2013
  - 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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