

**Q14**

(a) (1 mark)

$$-4$$

(b) (7 mark)

(i) Note that  $F(-1) = -12$  and  $F(2) = 0$ .

$$\begin{aligned} (6(-1)^2 + (-1) - 4)(q(-1)^2 + r(-1) - 10) &= -12 \\ q - r - 10 &= -12 \end{aligned}$$

$$\begin{aligned} (6(2)^2 + (2) - 4)(q(2)^2 + r(2) - 10) &= 0 \\ 4q + 2r - 10 &= 0 \end{aligned}$$

By solving, we have  $q = 1$  and  $r = 3$ .

(ii)  $F(x) = 0$

$$\begin{aligned} (6x^2 + x - 4)(x^2 + 3x - 10) &= 0 \\ 6x^2 + x - 4 = 0 \text{ or } x^2 + 3x - 10 &= 0 \\ x = \frac{-1 \pm \sqrt{97}}{12} \text{ or } x = 2 \text{ or } x = -5 \end{aligned}$$

Note that 2 and -5 are rational and  $\frac{-1 \pm \sqrt{97}}{12}$  are irrational.

So, there are 2 irrational roots.

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**Thomas Bond,Chris Hughes**



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## **Table of Contents Dse Math Paperans**

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

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