

# Equations and Inequalities

## Simultaneous Equations

You will need the substitution method when one of the equations is quadratic.

You will end up with 0, 1 or 2 answers as with any Quadratic.

→ This means you will either get 0, 1 or 2 pairs of answers

Sub each value for  $y$  into one of the equations

$$\begin{array}{l} x + 2y = 3 \\ y = -1/2 \quad \swarrow \quad \searrow y = -1 \\ x + (-1) = 3 \quad x + (-2) = 3 \\ x = 4 \quad \quad \quad x = 5 \end{array}$$

$$x = 4, y = -1/2$$

$$x = 5, y = -1$$

## Example

Solve the following Simultaneous Equations by Substitution

$$\begin{array}{l} 1 \quad x + 2y = 3 \quad \xrightarrow{\text{Re-arrange}} \quad x = 3 - 2y \\ 2 \quad x^2 + 3xy = 10 \end{array}$$

Replace the 'x' in equation 2, with '3 - 2y'

$$\begin{array}{l} 2 \quad x^2 + 3xy = 10 \\ (3 - 2y)^2 + 3y(3 - 2y) = 10 \\ 9 - 12y + 4y^2 + 9y - 6y^2 = 10 \\ -2y^2 - 3y - 1 = 0 \\ 2y^2 + 3y + 1 = 0 \\ (2y + 1)(y + 1) = 0 \\ y = -\frac{1}{2} \quad \text{or} \quad y = -1 \end{array}$$

Expand Brackets  
Simplify  
Multiply by -1  
Factorise  
Solve

# Equations And Inequalities Topic Test E2020 Answers

**M Lipman**



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## **Table of Contents Equations And Inequalities Topic Test E2020 Answers**

1. Understanding the eBook Equations And Inequalities Topic Test E2020 Answers
  - The Rise of Digital Reading Equations And Inequalities Topic Test E2020 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Equations And Inequalities Topic Test E2020 Answers
  - 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 Equations And Inequalities Topic Test E2020 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Equations And Inequalities Topic Test E2020 Answers
  - Personalized Recommendations
  - Equations And Inequalities Topic Test E2020 Answers User Reviews and Ratings
  - Equations And Inequalities Topic Test E2020 Answers and Bestseller Lists
5. Accessing Equations And Inequalities Topic Test E2020 Answers Free and Paid eBooks
  - Equations And Inequalities Topic Test E2020 Answers Public Domain eBooks
  - Equations And Inequalities Topic Test E2020 Answers eBook Subscription Services
  - Equations And Inequalities Topic Test E2020 Answers Budget-Friendly Options

6. Navigating Equations And Inequalities Topic Test E2020 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Equations And Inequalities Topic Test E2020 Answers Compatibility with Devices
  - Equations And Inequalities Topic Test E2020 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Equations And Inequalities Topic Test E2020 Answers
  - Highlighting and Note-Taking Equations And Inequalities Topic Test E2020 Answers
  - Interactive Elements Equations And Inequalities Topic Test E2020 Answers
8. Staying Engaged with Equations And Inequalities Topic Test E2020 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Equations And Inequalities Topic Test E2020 Answers
9. Balancing eBooks and Physical Books Equations And Inequalities Topic Test E2020 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Equations And Inequalities Topic Test E2020 Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Equations And Inequalities Topic Test E2020 Answers
  - Setting Reading Goals Equations And Inequalities Topic Test E2020 Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Equations And Inequalities Topic Test E2020 Answers
  - Fact-Checking eBook Content of Equations And Inequalities Topic Test E2020 Answers
  - 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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