

Section 6.2: Solving Systems of Equations by Substitution

Solve each system using the substitution method. SHOW ALL WORK!

1) $y = 5x - 14$

$x - 2y = 1$

$$\begin{array}{r} x - 2(5x - 14) = 1 \\ x - 10x + 28 = 1 \\ -9x + 28 = 1 \\ -9x = -27 \\ x = 3 \end{array}$$

$y = 5(3) - 14$

$y = 1$

$(3, 1)$

2) $x = 9y - 10$

$6x + y = -5$

$$\begin{array}{r} 6(9y - 10) + y = -5 \\ 54y - 60 + y = -5 \\ 55y - 60 = -5 \\ 55y = 55 \\ y = 1 \end{array}$$

$x = 9(1) - 10$

$x = -1$

$(-1, 1)$

3) $x + 6y = 16$

$9x - 2y = -12$

$$\begin{array}{r} 9(x + 6y) - 2y = -12 \\ 9x + 54y - 2y = -12 \\ 9x + 52y = -12 \\ 52y = -12 - 9x \\ y = -3 \end{array}$$

$x = 16 - 6(-3)$

$x = 34$

4) $y = 2x - 10$

$2y = x - 8$

$$\begin{array}{r} 2(2x - 10) = x - 8 \\ 4x - 20 = x - 8 \\ 3x = 12 \\ x = 4 \end{array}$$

$y = 2(4) - 10$

$y = -2$

$(-2, -3)$

$(4, -2)$

5) $x = 2y + 14$

$y = 3x - 14$

$$\begin{array}{r} x + 2(3x - 14) = 14 \\ x + 6x - 28 = 14 \\ 7x - 28 = 14 \\ 7x = 42 \\ x = 6 \end{array}$$

$y = 3(6) - 14$

$y = 4$

$(6, 4)$

6) $x = -3y - 5$

$-2x - y = 5$

$$\begin{array}{r} -2(-3y - 5) - y = 5 \\ 6y + 10 - y = 5 \\ 5y + 10 = 5 \\ 5y = -5 \\ y = -1 \end{array}$$

$x = -3(-1) - 5$

$x = -2$

$(-2, -1)$

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Table of Contents Explore Learning Answer Key Solving Linear Systems

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

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