

Completing the Square Worksheet

To solve $ax^2 + bx + c = 0$ by "completing the square":

1. Put the variable terms on the left of the equal sign, in standard form, and the constant term from the right. So, get to the form $-ax^2 + bx = -c$.
2. Multiply $-ax^2$ by the coefficient of x^2 is 1.
3. Take one half the coefficient of the x term, square it, and add the quantity to both sides of the equation. Namely, add $\left(\frac{b}{2}\right)^2$ to both sides.
4. Factor the Perfect Square Trinomial on the left side of the equation and simplify the right side. Remember, it always factors into $\left(x + \frac{b}{2}\right)^2$.
5. Use the principle of square roots.
6. Solve the remaining equation.
7. Check your answer in the original equation.

Solve each equation by completing the square.

1. $x^2 - 2x - 15 = 0$

2. $x^2 + 2x = 35$

3. $2x^2 + 8x - 7 = -3$

4. $8x = 4x^2 - 1$

5. $2x^2 - 4x + 5 = 6$

6. $6x = 4x^2 - 1$

7. $x^2 + 2x - 8 = 0$

8. $x^2 - 7x = 18$

Math 154b Name Completing The Square Worksheet

Lei Huang



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Table of Contents Math 154b Name Completing The Square Worksheet

1. Understanding the eBook Math 154b Name Completing The Square Worksheet
 - The Rise of Digital Reading Math 154b Name Completing The Square Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 154b Name Completing The Square Worksheet
 - 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 Math 154b Name Completing The Square Worksheet
 - User-Friendly Interface

4. Exploring eBook Recommendations from Math 154b Name Completing The Square Worksheet
 - Personalized Recommendations
 - Math 154b Name Completing The Square Worksheet User Reviews and Ratings
 - Math 154b Name Completing The Square Worksheet and Bestseller Lists
5. Accessing Math 154b Name Completing The Square Worksheet Free and Paid eBooks
 - Math 154b Name Completing The Square Worksheet Public Domain eBooks
 - Math 154b Name Completing The Square Worksheet eBook Subscription Services
 - Math 154b Name Completing The Square Worksheet Budget-Friendly Options
6. Navigating Math 154b Name Completing The Square Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 154b Name Completing The Square Worksheet Compatibility with Devices
 - Math 154b Name Completing The Square Worksheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 154b Name Completing The Square Worksheet
 - Highlighting and Note-Taking Math 154b Name Completing The Square Worksheet
 - Interactive Elements Math 154b Name Completing The Square Worksheet
8. Staying Engaged with Math 154b Name Completing The Square Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 154b Name Completing The Square Worksheet
9. Balancing eBooks and Physical Books Math 154b Name Completing The Square Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 154b Name Completing The Square Worksheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math 154b Name Completing The Square Worksheet
 - Setting Reading Goals Math 154b Name Completing The Square Worksheet
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Math 154b Name Completing The Square Worksheet
 - Fact-Checking eBook Content of Math 154b Name Completing The Square Worksheet
 - 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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