

3-1 Study Guide and Intervention

Graphing Linear Equations

Identify Linear Equations and Intercepts A linear equation is an equation that can be written in the form $Ax + By = C$. This is called the **standard form** of a linear equation.

Standard Form of a Linear Equation

$Ax + By = C$, where $A \geq 0$, A and B are not both zero, and A , B , and C are integers with a greatest common factor of 1

Example 1: Determine whether $y = 6 - 3x$ is a linear equation. Write the equation in standard form.

First rewrite the equation so both variables are on the same side of the equation.

$$y = 6 - 3x$$

Original equation

$$y + 3x = 6 - 3x + 3x$$

Add $3x$ to each side.

$$3x + y = 6$$

Simplify.

The equation is now in standard form, with $A = 3$, $B = 1$ and $C = 6$. This is a linear equation.

Example 2 Determine whether $3xy + y = 4 + 2x$ is a linear equation. Write the equation in standard form.

Since the term $3xy$ has two variables, the equation cannot be written in the form $Ax + By = C$. Therefore, this is not a linear equation.

Exercises

Determine whether each equation is a linear equation. Write *yes* or *no*. If yes, write the equation in standard form.

1. $2x = 4y$

2. $6 + y = 8$

3. $4x - 2y = -1$

4. $3xy + 8 = 4y$

5. $3x - 4 = 12$

6. $y = x^2 + 7$

7. $y - 4x = 9$

8. $x + 8 = 0$

9. $-2x + 3 = 4y$

10. $2 + \frac{1}{2}x = y$

11. $\frac{1}{4}y = 12 - 4x$

12. $3xy - y = 8$

13. $6x + 4y - 3 = 0$

14. $yx - 2 = 8$

15. $6x - 2y = 8 + y$

16. $\frac{1}{2}x - 12y = 1$

17. $3 + x + x^2 = 0$

18. $x^2 = 2xy$

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Yi-Tong Ma



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Table of Contents Study Guide Intervention Algebra Answer Key

1. Understanding the eBook Study Guide Intervention Algebra Answer Key
 - The Rise of Digital Reading Study Guide Intervention Algebra Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Intervention Algebra Answer Key
 - 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 Study Guide Intervention Algebra Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Intervention Algebra Answer Key
 - Personalized Recommendations

- Study Guide Intervention Algebra Answer Key User Reviews and Ratings
- Study Guide Intervention Algebra Answer Key and Bestseller Lists
- 5. Accessing Study Guide Intervention Algebra Answer Key Free and Paid eBooks
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 - Highlighting and Note-Taking Study Guide Intervention Algebra Answer Key
 - Interactive Elements Study Guide Intervention Algebra Answer Key
- 8. Staying Engaged with Study Guide Intervention Algebra Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Intervention Algebra Answer Key
- 9. Balancing eBooks and Physical Books Study Guide Intervention Algebra Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Intervention Algebra Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Intervention Algebra Answer Key
 - Setting Reading Goals Study Guide Intervention Algebra Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Intervention Algebra Answer Key
 - Fact-Checking eBook Content of Study Guide Intervention Algebra Answer Key

- 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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