

NAME _____ DATE _____ PERIOD _____

3-1 Study Guide and Intervention**Solving Systems of Equations by Graphing**

Graph Systems of Equations A system of equations is a set of two or more equations containing the same variables. You can solve a system of linear equations by graphing the equations on the same coordinate plane. If the lines intersect, the solution is that intersection point.

Example Solve the system of equations by graphing.

$$\begin{aligned}x - 2y &= 4 \\ x + y &= -2\end{aligned}$$

Write each equation in slope-intercept form.

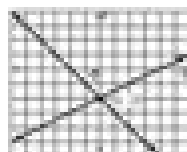
$$\begin{aligned}x - 2y &= 4 &\Rightarrow y &= \frac{1}{2}x - 2 \\ x + y &= -2 &\Rightarrow y &= -x - 2\end{aligned}$$

The graphs appear to intersect at $(0, -2)$.

CHECK Substitute the coordinate into each equation.

$$\begin{aligned}x - 2y &= 4 & 0 - 2(-2) &= 4 \\ 0 + 4 &= 4 & 4 &= 4 \checkmark \\ x + y &= -2 & 0 + (-2) &= -2 \\ -2 &= -2 \checkmark\end{aligned}$$

The solution of the system is $(0, -2)$.

**Exercises**

Solve each system of equations by graphing.

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

$y = \frac{1}{2}x + 4$ **(6, -2)**



2. $y = 2x - 2$

$y = -x + 4$ **(2, 2)**



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

$y = \frac{1}{2}x$ **(4, 2)**



4. $2x - y = 0$

$x + y = 0$ **(1, 2)**



5. $2x + \frac{1}{2}y = -1$

$\frac{1}{2}x + y = 1$ **(-4, 3)**



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

$3x - y = -1$ **(-2, -3)**

**3-1 Study Guide and Intervention** (continued)**Solving Systems of Equations by Graphing**

Classify Systems of Equations The following chart summarizes the possibilities for graphs of two linear equations in two variables.

Graphs of Equations	Slopes of Lines	Classification of System	Number of Solutions
Lines intersect	Different slopes	Consistent and independent	One
Lines coincide (same line)	Same slope, same y-intercept	Consistent and dependent	Infinitely many
Lines are parallel	Same slope, different y-intercepts	Inconsistent	None

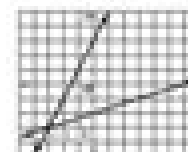
Example Graph the system of equations and describe it as consistent and independent, consistent and dependent, or inconsistent.

$$\begin{aligned}x - 2y &= 4 \\ 2x - y &= -2\end{aligned}$$

Write each equation in slope-intercept form.

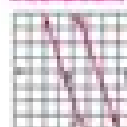
$$\begin{aligned}x - 2y &= 4 &\Rightarrow y &= \frac{1}{2}x - 2 \\ 2x - y &= -2 &\Rightarrow y &= 2x + 2\end{aligned}$$

The graphs intersect at $(-2, -2)$. Since there is one solution, the system is consistent and independent.

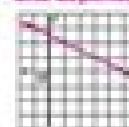
**Exercises**

Graph the system of equations and describe it as consistent and independent, consistent and dependent, or inconsistent.

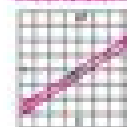
1. $2x + y = -2$
 $4x + 2y = 10$
inconsistent



2. $x + 2y = 2$
 $2x + 2y = -6$ **consistent and dependent**



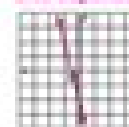
3. $2x - 3y = 0$
 $4x + 6y = 2$
inconsistent



4. $2x - y = 2$
 $x + 2y = 4$ **consistent and independent**



5. $4x + y = -2$
 $2x + \frac{1}{2}y = -1$ **consistent and dependent**



6. $2x - y = 2$
 $x + y = 4$ **consistent and independent**



Answers For Algebra Connections Academy

Léo Pomar



Answers For Algebra Connections Academy:

Learning and Education Games: Volume Two: Bringing Games into Educational Contexts Karen Schrier
Shafenfeld, 2016 The Learning Education Games book series is perfect for any educator or developer seeking an introduction to research driven best practices for using and designing games for learning This volume Bringing Games into Educational Contexts delves into the challenges of creating games and implementing them in educational settings This book covers relevant issues such as gamification curriculum development using games to support ASD autism spectrum disorder students choosing games for the classroom and library homeschooling and gameschooling working with parents and policymakers and choosing tools for educational game development Learning Education Games Bringing Games into Educational Contexts is the second in a series written and edited by members of the Learning Education and Games LEG special interest group of the IGDA International Game Developers Association Holt Algebra 1 2003 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 The academy, 1877 **Planting the Seeds of Algebra, PreK-2** Monica Neagoy, 2012-04-20 The subject of algebra has always been important in American secondary mathematics education However algebra at the elementary level has been garnering increasing attention and importance over the past 15 years There is consequently a dire need for ideas suggestions and models for how best to achieve pre algebraic instruction in the elementary grades Planting the Seeds of Algebra will empower teachers with theoretical and practical knowledge about both the content and pedagogy of such instruction and show them the different faces of algebra as it appears in the early grades The book will walk teachers of young children through many examples of K 6 math lessons and unpack step by step the hidden connections to higher algebra After reading this book teachers will be better equipped Library Media Connection, 2003 *Connecting Mathematics for Elementary Teachers* David Feikes, Keith Schwingendorf, Jeff Gregg, 2009 Book Jacket **Resources in Education**, 1999-10 Journal of Education, 1881 *Journal of Education and School World*, 1888 *High School Mathematics at Work* National Research Council, Mathematical Sciences Education Board, 1998-06-27 Traditionally vocational mathematics and precollege mathematics have been separate in schools But the technological world in which today's students will work and live calls for increasing connection between mathematics and its applications Workplace based mathematics may be good mathematics for everyone High School Mathematics at Work illuminates the interplay between technical and academic mathematics This collection of thought provoking essays by mathematicians educators and other experts is enhanced with illustrative tasks from workplace and everyday contexts that suggest ways to strengthen high school mathematical education This important book addresses how to make mathematical education of all students meaningful how to meet the practical needs of students entering the work force after high school as well as the needs of students going on to postsecondary education The short readable essays frame basic issues provide background and suggest alternatives to the traditional separation between technical and academic mathematics They are accompanied by intriguing

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RTI in Math Wiliam N. Bender,Darlene N. Crane,2010-08-01 This map of the RTI process offers an overview of research detailed guidance through each stage of implementation tools for teacher reflection and growth and discussion of support strategies beyond the classroom The authors analyze a variety of common student difficulties in elementary math and apply a three tier RTI model to the general education classroom [A Psychological Approach to Entrepreneurship](#) Dean A.

Shepherd,2014-12-31 Within an entrepreneurial context what a person thinks and feels and how they behave are hugely consequential Entrepreneurs often work in scenarios of considerable time pressure task complexity uncertainty and high performance variance This fasci *Education at a Crossroads* United States. Congress. House. Committee on Education and the Workforce. Subcommittee on Oversight and Investigations,1997 **Annual Report on the Condition and**

Improvement of the Common Schools and Educational Interests of the State of Wisconsin Wisconsin. Department of Public Instruction,1869 *Publisher and Bookseller* ,1867 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series [Mathematical Tables](#)

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P-12 and Higher Education Mulvaney, Tracy,George, William O.,Fitzgerald, Jason,Morales, Wendy,2024-05-06

Transformative leadership emerges as the beacon guiding P 12 schools and higher education institutions through the intricacies of necessary change. Leaders must confront the perennial challenges faced by educational institutions head on, equipped with an array of innovative strategies and a commitment to fostering equitable practices from addressing inclusion, diversity, and belonging to navigating the complex terrain of school change. In *Transformative Leadership and Change Initiative Implementation for P 12 and Higher Education*, the echoes of Heraclitus's wisdom reverberate, reminding educational leaders that the only constant is change. This book delves into the core of transformative strategies employed by thought leaders across the educational spectrum, from P 12 schools to university corridors. Guided by transformative leadership principles, this book traverses the intricate tapestry of topics such as technology integration, educational entrepreneurship, and global citizenship, providing a roadmap for leaders to navigate the complexities of the modern educational landscape. The emphasis on social-emotional leadership and learning underscores the importance of nurturing the holistic development of students, ensuring they thrive both academically and emotionally.

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