

Find slope.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the y-intercept:
Solve for b
 $y = mx + b$

Write the equation $y = mx + b$

6. (3, -1) and (-6, -4)
m =

$$\frac{-4 - -1}{-6 - 3} = \frac{-3}{-9} = \frac{1}{3}$$

$$-1 = \frac{1}{3}(3) + b$$

$$-1 = 1 + b$$

$$b = -2$$

$$y = mx + b$$

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

7. (4, 1) and (-4, 7)
m =

$$\frac{1 - 7}{4 - (-4)} = \frac{-6}{8} = -\frac{3}{4}$$

$$7 = -\frac{3}{4}(-4) + b$$

$$7 = 3 + b$$

$$b = 4$$

$$y = mx + b$$

$$y = -\frac{3}{4}x + 4$$

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M Woodhall



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Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

Contemporary Mathematics in Context, 2003 **Math Games for Middle School** Mario Salvadori, Joseph P. Wright, 1998-07 Uses explanations word problems and games to cover some mathematical topics that middle school students need to know including the invention of numerical notations basic arithmetical operations measurements geometry graphs and probability **The American Mathematical Monthly**, 1922 Includes section Recent publications *BioMath in the Schools* Margaret B. Cozzens, Fred S.

Roberts,2011 Even though contemporary biology and mathematics are inextricably linked high school biology and mathematics courses have traditionally been taught in isolation But this is beginning to change This volume presents papers related to the integration of biology and mathematics in high school classes The first part of the book provides the rationale for integrating mathematics and biology in high school courses as well as opportunities for doing so The second part explores the development and integration of curricular materials and includes responses from teachers Papers in the third part of the book explore the interconnections between biology and mathematics in light of new technologies in biology The last paper in the book discusses what works and what doesn't and presents positive responses from students to the integration of mathematics and biology in their classes **A Dictionary of the English Language** Joseph Emerson Worcester,1859

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