

PRECALCULUS

Unit 1: Fundamentals

Lesson 8: Coordinate Geometry

Lesson 8: Coordinate Geometry

Topic 8.1: Graphing Regions



Ex 3: Sketch the region given by the system of inequalities:

$$y \geq 2x - 1$$
$$y \leq -x + 4$$

Topic 8.2: The Distance and Midpoint Formulas

The distance between points $A(x_1, y_1)$ and $B(x_2, y_2)$ is given by:

$$d(A, B) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

The midpoint between points $A(x_1, y_1)$ and $B(x_2, y_2)$ is given by:

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Ex 2: Find the distance between the points $A(1, -2)$ and $B(4, 3)$.

Ex 3: Find the midpoint of the line segment with endpoints $A(2, 5)$ and $B(8, 1)$.

Topic 8.3: Symmetry

- **x-axis symmetry:** equation doesn't change when replacing y with $-y$
- **y-axis symmetry:** equation doesn't change when replacing x with $-x$
- **origin symmetry:** equation doesn't change when replacing x with $-x$ and y with $-y$

Ex 4: Determine the type of symmetry of the following equation.

$$y = x^2 - 4$$

Topic 8.4: Intercepts

x-intercepts

- x-coordinates of points where the graph intersects the x-axis
- **How to find:** set $y = 0$ and solve for x

y-intercepts

- y-coordinate of the point where the graph intersects the y-axis

$$y = x^2 - 4$$

Unit 1
Lesson 8

Guided notes & Problem Set

Precalculus Unit 8 Lesson 1

G Thomas



Precalculus Unit 8 Lesson 1:

Precalculus: The Easy Way Christina Pawlowski-Polanish, Lawrence Leff, 2019-09-03 A self teaching guide for students Precalculus The Easy Way provides easy to follow lessons with comprehensive review and practice This edition features a brand new design and new content structure with illustrations and practice questions An essential resource for High school and college courses Virtual learning Learning pods Homeschooling Precalculus The Easy Way covers Algebraic Methods Functions and Graphs Complex Numbers Polynomial and Rational Functions Calculus Preview And more **Precalculus with Limits** Richard N. Aufmann, Vernon C. Barker, Richard D. Nation, 1999-11 Offering more algebra review than other texts Precalculus with Limits encourages students to actively participate in math and focus on the link between concepts and applications The proven Aufmann Interactive Method helps students learn the process of working out problems by providing a step by step example with annotations accompanied by a You Try It exercise Students can then pinpoint mistakes by consulting the complete solutions in the appendix **Workshop Precalculus** Nancy Baxter-Hastings, 2002-02-22 The Workshop Precalculus text is part of the successful Workshop Mathematics Project based at Dickinson College Pennsylvania It combines interactive teaching and collaborative learning such that students become active participants in the learning process In this new text this proven pedagogy is used to cover topics in precalculus linear and quadratic functions and trig functions for example Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM's just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author's 35 year experience as an

educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics

Eureka Math Precalculus Study Guide Great Minds,2016-07-14 The team of teachers and mathematicians who created Eureka Math believe that it s not enough for students to know the process for solving a problem they need to know why that process works That s why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We re here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more

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Journal for Research in Mathematics Education ,2012 *Forthcoming Books* Rose Arny,2003 **Subject Guide to Books in Print** ,1997 *Subject Guide to Children's Books in Print* 1997 Bowker Editorial Staff,R R

Bowker Publishing,1996-09 The National Guide to Educational Credit for Training Programs ,2000 *Preparing for a New Calculus* Anita E. Solow,1994 *Trigonometry in a Student-centered Classroom* Stephen L. Goodloe,2005 *Proving Ground* Kathy Kleiman,2022-07-26 Discover a fascinating look into the lives of six historic trailblazers in this World War II era story of the American women who programmed the world's first modern computer After the end of World War II the race for technological supremacy sped on Top secret research into ballistics and computing begun during the war to aid those on the front lines continued across the United States as engineers and programmers rushed to complete their confidential assignments Among them were six pioneering women tasked with figuring out how to program the world's first general purpose programmable all electronic computer better known as the ENIAC even though there were no instruction codes or programming languages in existence While most students of computer history are aware of this innovative machine the great contributions of the women who programmed it were never told until now Over the course of a decade Kathy Kleiman met with four of the original six ENIAC Programmers and recorded extensive interviews with the women about their work Proving Ground restores these women to their rightful place as technological revolutionaries As the tech world continues to struggle with gender imbalance and its far reaching consequences the story of the ENIAC Programmers groundbreaking work is more urgently necessary than ever before and Proving Ground is the celebration they deserve

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