



## PRECALCULUS

## COORDINATE GEOMETRY

## A. LINES AND SLOPES

Given  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$

- The slope of the line through  $P_1$  and  $P_2$  is  $m = \frac{y_2 - y_1}{x_2 - x_1}$ .
- The midpoint of the segment joining  $P_1$  and  $P_2$  is  $M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ .

- The slope of a line perpendicular to the line through  $P_1$  and  $P_2$  is  $m = -\frac{1}{m}$ .

- Line  $l$  is parallel to line  $m$  if  $m_l = m_m$ .
- Line  $l$  is perpendicular to line  $m$  if  $m_l = -\frac{1}{m_m}$ .
- Line  $l$  is parallel to line  $m$  if  $m_l = m_m$  and  $b_l \neq b_m$ , where  $ax + by = c$  is the standard form of the line.
- Line  $l$  is perpendicular to line  $m$  if  $a_l a_m + b_l b_m = 0$ , where  $(x_1, y_1)$  is a point on line  $l$  and  $(x_2, y_2)$  is a point on line  $m$ .

## B. SYMMETRY

Origin =  $O(0, 0)$

- The  $x$ -axis,  $y$ -axis, and the line  $y = x$  are the lines of symmetry of the origin.

- |                  |       |
|------------------|-------|
| Line of symmetry | Order |
| $x$ -axis        | $n$   |
| $y$ -axis        | $n$   |
| $y = x$          | $2n$  |
| $y = -x$         | $2n$  |

## FUNDAMENTAL ALGEBRA

## A. POLYNOMIAL ARITHMETIC

- $(a + b)^2 = a^2 + 2ab + b^2$
- $(a - b)^2 = a^2 - 2ab + b^2$
- $(a + b)(a - b) = a^2 - b^2$
- $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
- $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
- $(a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$
- $(a - b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$
- $(a + b)^n = a^n + \binom{n}{1}a^{n-1}b + \binom{n}{2}a^{n-2}b^2 + \dots + \binom{n}{n-1}ab^{n-1} + b^n$

## B. RATIONAL EXPRESSIONS

Reduce expressions to the form  $\frac{P(x)}{Q(x)}$ .  $P(x)$  and  $Q(x)$  are polynomials, and the denominator is  $\neq 0$ .

- $\frac{P(x)}{Q(x)} = \frac{P(x)}{Q(x)}$  if  $Q(x) \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) \cdot k}{Q(x) \cdot k}$  if  $k \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) - P(x)}{Q(x) - Q(x)}$  if  $Q(x) \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) + P(x)}{Q(x) + Q(x)}$  if  $Q(x) \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) - P(x)}{Q(x) - Q(x)}$  if  $Q(x) \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) + P(x)}{Q(x) + Q(x)}$  if  $Q(x) \neq 0$

## C. RADICALS

- For every real number  $a$ ,  $a$  has a real  $n$ th root for a positive integer  $n$ . For  $n$  an even integer  $n > 2$ ,  $a$  has two  $n$ th roots.
- $\sqrt[n]{a} = a^{\frac{1}{n}}$
- $\sqrt[n]{a} = \sqrt[n]{a}$  if  $a \geq 0$

## SOLVING EQUATIONS AND INEQUALITIES

## A. SOLVING EQUATIONS IN ONE VARIABLE

- $a$  is a real number  $a + c = b + c$
- $a$  is a real number  $ax + c = bx + c$
- $a$  is a real number  $ax + c = bx + d$

- $a$  is a real number  $ax + c = bx + d$
- $a$  is a real number  $ax + c = bx + d$  if  $a \neq b$
- $a$  is a real number  $ax + c = bx + d$  if  $a = b$  and  $c = d$

## B. SOLVING ABSOLUTE VALUE EQUATIONS AND INEQUALITIES

- $|x - a| = b$  if  $b \geq 0$ ,  $x - a = b$  or  $x - a = -b$
- $|x - a| < b$  if  $b > 0$ ,  $x - a < b$  and  $x - a > -b$
- $|x - a| > b$  if  $b > 0$ ,  $x - a > b$  or  $x - a < -b$

## C. SYSTEMS OF LINEAR EQUATIONS

Given two equations  $a_1x + b_1y = c_1$  and  $a_2x + b_2y = c_2$

$$R = \begin{bmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \end{bmatrix} \rightarrow \begin{bmatrix} a_1 & b_1 & c_1 \\ 0 & 0 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} a_1 & b_1 & c_1 \\ 0 & 0 & 0 \end{bmatrix}$$

- and  $D = \begin{bmatrix} a_1 & b_1 \\ a_2 & b_2 \end{bmatrix}$  and  $d = \begin{bmatrix} c_1 \\ c_2 \end{bmatrix}$  where  $D = \begin{bmatrix} a_1 & b_1 \\ a_2 & b_2 \end{bmatrix}$  and  $d = \begin{bmatrix} c_1 \\ c_2 \end{bmatrix}$  are the determinants of the coefficient matrix and the augmented matrix, respectively.
- System of equations is consistent if  $D \neq 0$  or  $D = 0$  and  $d = 0$ .
- System of equations is inconsistent if  $D = 0$  and  $d \neq 0$ .

System of equations is consistent if  $D \neq 0$  or  $D = 0$  and  $d = 0$ .

$$x = \frac{\begin{vmatrix} c_1 & b_1 \\ c_2 & b_2 \end{vmatrix}}{\begin{vmatrix} a_1 & b_1 \\ a_2 & b_2 \end{vmatrix}}, y = \frac{\begin{vmatrix} a_1 & c_1 \\ a_2 & c_2 \end{vmatrix}}{\begin{vmatrix} a_1 & b_1 \\ a_2 & b_2 \end{vmatrix}}$$

System of equations is inconsistent if  $D = 0$  and  $d \neq 0$ .

System of equations is consistent if  $D = 0$  and  $d = 0$ .

## FUNCTIONS AND EQUATIONS

## A. FUNCTION

Let  $A$  and  $B$  be two sets. A function  $f$  from  $A$  to  $B$  is a set of ordered pairs  $(a, f(a))$  where  $a \in A$  and  $f(a) \in B$ .

## B. VERTICAL LINE TEST

- A graph is a function if it passes the vertical line test.
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## C. COMBINING FUNCTIONS

- $(f + g)(x) = f(x) + g(x)$
- $(f - g)(x) = f(x) - g(x)$
- $(fg)(x) = f(x)g(x)$
- $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)}$  if  $g(x) \neq 0$

## D. INVERSE FUNCTIONS

- Two functions  $f$  and  $g$  are inverse functions if  $f(g(x)) = x$  and  $g(f(x)) = x$ .
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## E. POLYNOMIAL FUNCTIONS AND THEIR GRAPHS

- $f(x) = a_nx^n + a_{n-1}x^{n-1} + \dots + a_1x + a_0$  where  $a_n \neq 0$ .
- Graph of a polynomial function is a smooth curve.
- Graph of a polynomial function is a smooth curve.

- Graphs of polynomials of even degree  $n$  have the same shape as  $y = x^n$  and graphs of polynomials of odd degree  $n$  have the same shape as  $y = x^n$ .

## F. THE SLOPE

Given  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ , the slope of the line through  $P_1$  and  $P_2$  is  $m = \frac{y_2 - y_1}{x_2 - x_1}$ .

- Find the slope of the line through  $P_1$  and  $P_2$ .
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- Find the slope of the line through  $P_1$  and  $P_2$ .

## TRIGONOMETRY

Obtuse angles with  $n < 360^\circ$



## A. THE SIX TRIGONOMETRIC FUNCTIONS ARE DEFINED AS

- $\sin \theta = \frac{y}{r}$
- $\cos \theta = \frac{x}{r}$
- $\tan \theta = \frac{y}{x}$
- $\csc \theta = \frac{r}{y}$
- $\sec \theta = \frac{r}{x}$
- $\cot \theta = \frac{x}{y}$

## B. EXACT VALUES FOR SOME SPECIAL ANGLES ARE

$\theta$	$\sin \theta$	$\cos \theta$	$\tan \theta$
$0^\circ$	0	1	0
$30^\circ$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
$45^\circ$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1
$60^\circ$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
$90^\circ$	1	0	undefined
$120^\circ$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$-\sqrt{3}$
$135^\circ$	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	-1
$150^\circ$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$-\sqrt{3}$

## C. INVERSE TRIGONOMETRIC FUNCTIONS

- $y = \sin^{-1}x$  if and only if  $x = \sin y$  and  $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$
- $y = \cos^{-1}x$  if and only if  $x = \cos y$  and  $0 \leq y \leq \pi$
- $y = \tan^{-1}x$  if and only if  $x = \tan y$  and  $-\frac{\pi}{2} < y < \frac{\pi}{2}$

# Study Guide Precalculus

**Great Minds**



## Study Guide Precalculus:

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teaching the student about formulas and how to approach pre calculus best the study guide is always considered to be the most useful asset that teachers use to help them get the message across to students for years to come in their professional lives [Eureka Math Algebra I Study Guide](#) Great Minds,2016-06-14 The Eureka Math curriculum provides detailed daily lessons and assessments to support teachers in integrating the Common Core State Standards for Mathematics CCSSM into their instruction The companion guides to Eureka Math gather the key components of the curriculum for each grade into a single location Both users and non users of Eureka Math can benefit equally from the content presented The CCSSM require careful study A thorough study of the Guidebooks is a professional development experience in itself as users come to better understand the standards and the associated content Each book includes narratives that provide educators with an overview of what students learn throughout the year information on alignment to the instructional shifts and the standards design of curricular components and descriptions of mathematical models The Guidebooks can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are either brand new to the classroom or to the Eureka Math curriculum the Grade Level Guidebooks introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers already familiar with the curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Guidebooks allow teachers to obtain a firm grasp on what it is that students should master during the year **Precalculus CLEP Test Study Guide - PassYourClass**

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**The Essentials of Pre-calculus** Ernest Woodward,1992-01 REA s Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Pre Calculus reviews sets numbers operations and properties coordinate geometry fundamental algebraic topics solving equations and inequalities functions trigonometry exponents and logarithms conic sections matrices and determinants

**Pre-Calculus All-in-One For Dummies** Mary Jane Sterling,2023-10-10 The easy way to understand and retain all the concepts taught in pre calculus classes Pre Calculus All in One For Dummies is a great resource if you want to do you best in Pre Calculus Packed with lessons examples and practice problems in the book plus extra chapter quizzes online it gives you absolutely everything you need to succeed in pre calc Unlike your textbook this book presents the essential topics clearly and concisely so you can really understand the stuff you learn in class score high on your tests including the AP Pre Calculus exam and get ready to confidently move ahead to upper level math courses And if you need a refresher before launching into calculus look no further this book has your back Review what you learned in algebra and geometry then dig into pre calculus Master logarithms exponentials conic sections linear equations and beyond Get easy to understand explanations that match the methods your teacher uses Learn clever shortcuts test taking tips and other hacks to make your life easier Pre Calculus All in One For Dummies is the must have resource for students who need to review for exams or just want a little or a lot of extra help understanding what s happening in class

*Arithmetic Through Precalculus. a Primer and Study Guide* Alexander Kheyfits,2017-07-07 This two volume text is designed for high school students preparing for college and for college students who have to take a remedial mathematics

course In both cases the goal of this book is to help the students to learn the necessary mathematics and to go straightforwardly to college level courses without taking the mathematical remediation at all or complete it quickly The book is also useful to people who after spending a few years in workforce decide to advance their life and career and go to college but have to refresh their mathematical background The text will be also useful as a reference book to the teachers and parents The book is quite suitable for international students who wish to study at any American or European college or university This book contains brief introductions to the necessary topics many examples with detailed solutions and more than 500 exercises with answers for the students individual practice The book includes numerous tips on how to study mathematics and to approach typical problems The author teaches at the City University of New York and the text reflects the author s 50 years of experience in teaching mathematics at all levels from high school to undergraduate to graduate school

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**Study Guide for Stewart/Redlin/Watson's Precalculus: Mathematics for Calculus, 6th** James Stewart,Lothar Redlin,Saleem Watson,2011-03-02 This carefully crafted learning resource helps students develop their problem solving skills while reinforcing their understanding with detailed explanations worked out examples and practice problems Students will also find listings of key ideas to master Each section of the main text has a corresponding section in the Study Guide

[Topics in Precalculus Mathematics](#) Donald R. Burlison,1974

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### **Table of Contents Study Guide Precalculus**

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

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

- 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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