



## PRECALCULUS

## COORDINATE GEOMETRY

## A. LINES AND EQUATIONS

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

- The distance between  $P_1$  and  $P_2$  is  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ .
- 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 passing through  $P_1$  and  $P_2$  is  $m = \frac{y_2 - y_1}{x_2 - x_1}$ .
- The slope of a line perpendicular to the line through  $P_1$  and  $P_2$  is  $m = -\frac{1}{m}$ .
- The line through  $P_1$  and  $P_2$  has the equation  $y - y_1 = m(x - x_1)$ .
- The line through  $P_1$  and  $P_2$  has the equation  $Ax + By + C = 0$ .
- Three noncollinear points  $P_1, P_2,$  and  $P_3$  determine a unique circle.
- The center of the circle through  $P_1, P_2,$  and  $P_3$  is the point  $C$  that lies on the perpendicular bisectors of  $\overline{P_1P_2}$  and  $\overline{P_1P_3}$ .

## B. SYMMETRY

Origin =  $O(0, 0)$ .

If the vertices of a polygon lie on a circle, the polygon is inscribed in the circle. If the vertices of a polygon lie on a line, the polygon is inscribed in the line.

- |                                       |                   |
|---------------------------------------|-------------------|
| Circle with center $O$ and radius $r$ | $x^2 + y^2 = r^2$ |
| Circle with center $O$ and radius $r$ | $x^2 + y^2 = r^2$ |
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| Circle with center $O$ and radius $r$ | $x^2 + y^2 = r^2$ |

## FUNDAMENTAL ALGEBRA

## A. POLYNOMIAL ARITHMETIC

- $(a + b)^2 = a^2 + 2ab + b^2$
- $(a - b)^2 = a^2 - 2ab + b^2$
- $(a + b)(a - b) = a^2 - b^2$
- $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
- $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
- $(a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$
- $(a - b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$
- $(a + b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$
- $(a - b)^5 = a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5$

## B. RATIONAL EXPRESSIONS

Equivalent expressions are of the form  $\frac{P(x)}{Q(x)}$ .  $P(x)$  and  $Q(x)$  are polynomials, and the denominator is not 0.

- $\frac{P(x)}{Q(x)} = \frac{P(x) + R(x)}{Q(x)}$  if  $R(x) = 0$
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## C. RADICALS

- For every real number  $a$ ,  $\sqrt{a^2} = |a|$ .
- $\sqrt{a^2} = |a|$ .
- $\sqrt{a^2} = |a|$ .

## SOLVING EQUATIONS AND INEQUALITIES

## A. SOLVING EQUATIONS IN ONE VARIABLE

- $a = b$  if and only if  $a + c = b + c$
- $a = b$  if and only if  $a - c = b - c$
- $a = b$  if and only if  $ac = bc$

- $a = b$  if and only if  $ac = bc$  and  $c \neq 0$
- If  $a = b$  and  $c = d$ , then  $a + c = b + d$
- If  $a = b$  and  $c = d$ , then  $a - c = b - d$

## B. SOLVING ABSOLUTE VALUE EQUATIONS AND INEQUALITIES

- $|x| = a$  if and only if  $x = a$  or  $x = -a$
- $|x| < a$  if and only if  $-a < x < a$
- $|x| > a$  if and only if  $x < -a$  or  $x > a$

## C. SYSTEMS OF LINEAR EQUATIONS

Given two equations  $A_1x + B_1y = C_1$  and  $A_2x + B_2y = C_2$ .

$$\begin{bmatrix} A_1 & B_1 \\ A_2 & B_2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} C_1 \\ C_2 \end{bmatrix}$$

and  $D = \begin{vmatrix} A_1 & B_1 \\ A_2 & B_2 \end{vmatrix}$  and  $x = \frac{C_1 B_2 - C_2 B_1}{D}$  and  $y = \frac{A_1 C_2 - A_2 C_1}{D}$  if  $D \neq 0$ . If  $D = 0$ , the system of equations is either inconsistent or dependent.

Two linear equations  $A_1x + B_1y = C_1$  and  $A_2x + B_2y = C_2$  are dependent if and only if  $\frac{A_1}{A_2} = \frac{B_1}{B_2} = \frac{C_1}{C_2}$ .

Two linear equations  $A_1x + B_1y = C_1$  and  $A_2x + B_2y = C_2$  are inconsistent if and only if  $\frac{A_1}{A_2} = \frac{B_1}{B_2} \neq \frac{C_1}{C_2}$ .

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- Graphs of polynomials have x-intercepts at  $x = a_1, a_2, \dots, a_n$  and y-intercept at  $(0, c)$ .
- Graphs of polynomials have x-intercepts at  $x = a_1, a_2, \dots, a_n$  and y-intercept at  $(0, c)$ .

## D. THE BINOMIAL

$(a + b)^2 = a^2 + 2ab + b^2$

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$(a + b)(a - b) = a^2 - b^2$

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## TRIGONOMETRY

Obtuse angles with  $\theta = 180^\circ - \theta'$



## 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
$120^\circ$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$-\sqrt{3}$
$135^\circ$	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	$-1$
$150^\circ$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{\sqrt{3}}$
$180^\circ$	0	-1	0
$210^\circ$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
$225^\circ$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	1
$240^\circ$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$\sqrt{3}$
$270^\circ$	-1	0	undefined

## 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  $-\frac{\pi}{2} < y < \frac{\pi}{2}$

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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

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- Interactive and Gamified eBooks

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