



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 l is $m = -\frac{1}{m_l}$.
- The equation of a line passing through P_1 and P_2 is $y - y_1 = m(x - x_1)$.

- The line l is vertical if m_l is not defined.
- The line l is horizontal if $m_l = 0$.
- Two nonvertical lines l_1 and l_2 are perpendicular if $m_1 m_2 = -1$.
- Two nonvertical lines l_1 and l_2 are parallel if $m_1 = m_2$.

B. SYMMETRY

Origin = $O(0, 0)$

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

Point

- | | |
|-------------------------|-----------|
| (x, y) and $(x, -y)$ | x -axis |
| (x, y) and $(-x, y)$ | y -axis |
| (x, y) and (y, x) | $y = x$ |
| (x, y) and $(-x, -y)$ | Origin |

FUNDAMENTAL ALGEBRA

A. POLYNOMIAL ARITHMETIC

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

B. RATIONAL EXPRESSIONS

Equivalent expressions are of the form $\frac{P(x)}{Q(x)}$. $P(x)$ and $Q(x)$ are polynomials, and $Q(x) \neq 0$.

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

C. RADICALS

- For every real number a , a has a real n th root for a positive integer n . $\sqrt[n]{a}$ is the real n th root of a .
- $\sqrt{a} = \sqrt{a}$
- $\sqrt{a} = \sqrt{a}$

SOLVING EQUATIONS AND INEQUALITIES

A. SOLVING EQUATIONS IN ONE VARIABLE

- $a = b$ is a linear equation in one variable.
- $a < b$ is a linear inequality in one variable.
- $a = b$ is a linear equation in one variable.

- $a = b$ is a linear equation in one variable.
- $a < b$ is a linear inequality in one variable.
- $a = b$ is a linear equation in one variable.

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 $A_2x + B_2y = C_2$:

$$R = \begin{bmatrix} A_1 & B_1 \\ A_2 & B_2 \end{bmatrix}, C = \begin{bmatrix} C_1 \\ C_2 \end{bmatrix}, R^{-1}C = \begin{bmatrix} x \\ y \end{bmatrix}$$

and $D = \begin{bmatrix} A_1 & B_1 \\ A_2 & B_2 \end{bmatrix}$ and $y = \frac{C_1 A_2 - C_2 A_1}{A_1 B_2 - A_2 B_1}$

- System of two linear equations in two variables has a unique solution if $D \neq 0$.
- System of two linear equations in two variables has no solution if $D = 0$ and $C \neq 0$.
- System of two linear equations in two variables has infinitely many solutions if $D = 0$ and $C = 0$.

D. SYSTEMS OF NONLINEAR EQUATIONS

Let $A_1x + B_1y = C_1$ and $A_2x + B_2y = C_2$ be two linear equations in two variables.

$$x = \frac{C_1 B_2 - C_2 B_1}{A_1 B_2 - A_2 B_1}, y = \frac{C_2 A_1 - C_1 A_2}{A_1 B_2 - A_2 B_1}$$

and $D = \begin{bmatrix} A_1 & B_1 \\ A_2 & B_2 \end{bmatrix}$ and $C = \begin{bmatrix} C_1 \\ C_2 \end{bmatrix}$ if $D \neq 0$, $C \neq 0$, and $D \neq 0$.

and $D = \begin{bmatrix} A_1 & B_1 \\ A_2 & B_2 \end{bmatrix}$ and $C = \begin{bmatrix} C_1 \\ C_2 \end{bmatrix}$ if $D = 0$ and $C = 0$.

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D. GRAPHING POLYNOMIAL FUNCTIONS

- $y = ax^2 + bx + c$ is a parabola opening up if $a > 0$ and down if $a < 0$.
- $y = ax^2 + bx + c$ is a parabola opening up if $a > 0$ and down if $a < 0$.

E. THE CIRCLE

Let r be the radius of a circle, θ be the central angle in radians, s be the arc length, A be the area of the sector, and C be the circumference of the circle.

$$s = r\theta, A = \frac{1}{2}r^2\theta, C = 2\pi r$$

- Find θ if $s = r\theta$ and $C = 2\pi r$.
- Find A if $s = r\theta$ and $C = 2\pi r$.

- Find θ if $s = r\theta$ and $C = 2\pi r$.
- Find A if $s = r\theta$ and $C = 2\pi r$.

- Find θ if $s = r\theta$ and $C = 2\pi r$.
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TRIGONOMETRY

Obtuse angles with $\theta > 90^\circ$



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

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

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

Guide Precalculus Study

Judd E. Hollander



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