



## PRECALCULUS

## COORDINATE GEOMETRY

## A. LINES AND EQUATIONS

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 =  $O(0, 0)$

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: $C(x, y, r)$ | Center: $C(x, y)$ | Radius: $r$ |
| Circle: $C(x, y, r)$ | Center: $C(x, y)$ | Radius: $r$ |
| Circle: $C(x, y, r)$ | Center: $C(x, y)$ | Radius: $r$ |
| Circle: $C(x, y, r)$ | Center: $C(x, y)$ | Radius: $r$ |

## 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

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

- $\frac{P(x)}{Q(x)} = \frac{P(x)}{Q(x)}$  if  $Q(x) \neq 0$
- $\frac{P(x)}{Q(x)} = \frac{P(x) \cdot k}{Q(x) \cdot k}$  if  $k \neq 0$
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## C. RADICALS

Use only real numbers  $a$ ,  $b$ , and  $c$  for a positive integer  $n$ . Use  $n$  for a real number  $n$  and  $n$  for a real number  $n$ .

- $\sqrt[n]{a} = a^{1/n}$
- $\sqrt[n]{a} = \sqrt[n]{a}$
- $\sqrt[n]{a} = \sqrt[n]{a}$

## 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  $a \cdot c = b \cdot c$

- $a = b$  if and only if  $a \cdot c = b \cdot c$  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  $A_2x + B_2y = C_2$ :

$$A_1 \cdot B_2 - A_2 \cdot B_1 \neq 0 \Rightarrow \begin{cases} x = \frac{C_1 B_2 - C_2 B_1}{A_1 B_2 - A_2 B_1} \\ y = \frac{A_1 C_2 - A_2 C_1}{A_1 B_2 - A_2 B_1} \end{cases}$$

and  $A_1 B_2 - A_2 B_1 = 0$  and  $A_1 C_2 - A_2 C_1 \neq 0$ , the system of equations is inconsistent. If  $A_1 B_2 - A_2 B_1 = 0$  and  $A_1 C_2 - A_2 C_1 = 0$ , the system of equations is dependent.

Dependent equations:  $A_1x + B_1y = C_1$  and  $A_2x + B_2y = C_2$  are dependent if  $A_1 = kA_2$ ,  $B_1 = kB_2$ , and  $C_1 = kC_2$  for some real number  $k$ .

Independent equations:  $A_1x + B_1y = C_1$  and  $A_2x + B_2y = C_2$  are independent if  $A_1 B_2 - A_2 B_1 \neq 0$ .

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## TRIGONOMETRY

Obtuse angles with  $0^\circ < \theta < 360^\circ$



## 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
$150^\circ$	$\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{\sqrt{3}}$
$180^\circ$	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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**Yijin Wang**



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