

## DISTANCE AND MIDPOINT FORMULAS

Distance between  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ :

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

Midpoint of  $P_1P_2$ :  $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

## LINES

Slope of line through  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ :  $m = \frac{y_2 - y_1}{x_2 - x_1}$

Point-slope equation of line through  $P_1(x_1, y_1)$  with slope  $m$ :  $y - y_1 = m(x - x_1)$

Slope-intercept equation of line with slope  $m$  and  $y$ -intercept  $b$ :  $y = mx + b$

Two-intercept equation of line with  $x$ -intercept  $a$  and  $y$ -intercept  $b$ :  $\frac{x}{a} + \frac{y}{b} = 1$

## LOGARITHMS

$y = \log_a x$  means  $a^y = x$

$\log_a a^x = x$

$\log_a 1 = 0$

$\log_a x = \log_{a^k} x^k$

$\log_a xy = \log_a x + \log_a y$

$\log_a x^b = b \log_a x$

$a^{\log_a x} = x$

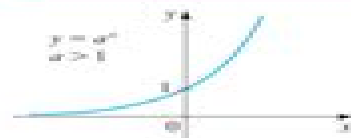
$\log_a a = 1$

$\ln x = \log_e x$

$\log_a \left(\frac{x}{y}\right) = \log_a x - \log_a y$

$\log_a x = \frac{\log_b x}{\log_b a}$

## EXPONENTIAL AND LOGARITHMIC FUNCTIONS



## GRAPHS OF FUNCTIONS

Linear functions:  $f(x) = mx + b$



Power functions:  $f(x) = x^n$



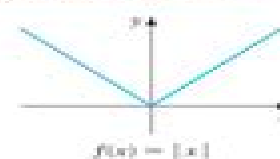
Root functions:  $f(x) = \sqrt[n]{x}$



Reciprocal functions:  $f(x) = 1/x^n$



Absolute value function



Greatest integer function



# Precalculus Mathematics

**Yijin Wang**



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