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 $a^y = x$

$\log_a a^x = x$ $\qquad a^{\log_a x} = x$

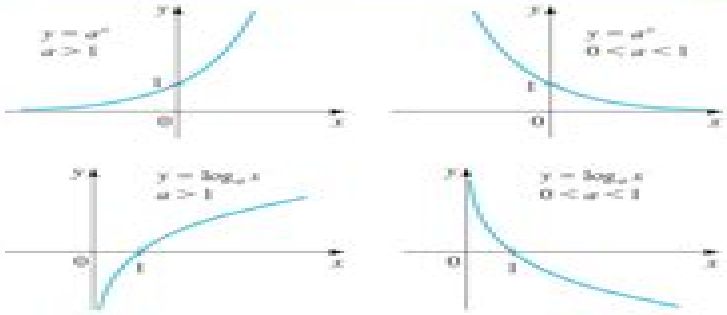
$\log_a 1 = 0$ $\qquad \log_a a = 1$

$\log x = \log_{10} x$ $\qquad \ln x = \log_e x$

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

$\log_a x^b = b \log_a x$ $\qquad \log_b x = \frac{\log_a x}{\log_a b}$

EXPONENTIAL AND LOGARITHMIC FUNCTIONS



GRAPHS OF FUNCTIONS

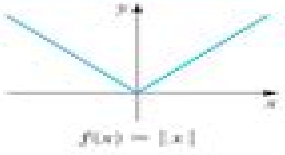
Linear functions: $f(x) = mx + b$

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

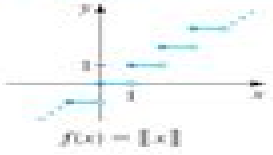
Root functions: $f(x) = \sqrt[n]{x}$

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

Absolute value function



Greatest integer function



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Three Thousand Solved Problems In Precalculus Mathematics

WJ Hussar

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