

PreCalculus Formulas



Sequences and Series:

Binomial Theorem $(a + b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k$	Arithmetic Last Term $a_n = a_1 + (n - 1)d$	Geometric Last Term $a_n = a_1 r^{n-1}$
Find the r^n term $\binom{n}{r-1} a^{n-(r-1)} b^{r-1}$	Arithmetic Partial Sum $S_n = n \left(\frac{a_1 + a_n}{2} \right)$	Geometric Partial Sum $S_n = a_1 \left(\frac{1 - r^n}{1 - r} \right)$

Functions:

To find the inverse function: $f^{-1}(x)$ 1. Set function = y 2. Interchange the variables 3. Solve for y	Composition of functions: $(f \circ g)(x) = f(g(x))$ $(g \circ f)(x) = g(f(x))$ $(f \circ f^{-1})(x) = x$
Algebra of functions: $(f + g)(x) = f(x) + g(x)$; $(f - g)(x) = f(x) - g(x)$ $(f \cdot g)(x) = f(x) \cdot g(x)$; $(f / g)(x) = f(x) / g(x)$, $g(x) \neq 0$ Domain: $D(f(x)) \cap D(g(x))$	
Domain (usable x's) Watch for problems with zero denominators and with negatives under radicals.	Asymptotes (vertical) Check to see if the denominator could ever be zero. $f(x) = \frac{x}{x^2 + x - 6}$
Range (y's used)	Asymptotes (horizontal) 1. $f(x) = \frac{x+3}{x^2-2}$ top power < bottom power means $y = 0$ (x-axis) 2. $f(x) = \frac{4x^2-5}{3x^2+4x+6}$ top power = bottom power means $y = 4/3$ (coefficients) 3. $f(x) = \frac{x^3}{x+4}$ None! top power > bottom power
Difference Quotient $\frac{f(x+h) - f(x)}{h}$ terms not containing a mult. of h will be eliminated.	Vertical asymptotes at $x = -3$ and $x = 2$

Complex and Polars:

DeMoivre's Theorem: $[r(\cos \theta + i \sin \theta)]^n = r^n (\cos n\theta + i \sin n\theta)$ $r = \sqrt{a^2 + b^2}$ $x = r \cos \theta$ $\theta = \arctan \frac{b}{a}$ $y = r \sin \theta$ $(r, \theta) \rightarrow (x, y)$	$a + bi$ $i = \sqrt{-1}$ $i^2 = -1$
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Determinants:

$\begin{vmatrix} 3 & 5 \\ 4 & 3 \end{vmatrix} = 3 \cdot 3 - 5 \cdot 4$	Use your calculator for 3x3 determinants.
Cramer's Rule: $ax + by = c$ $dx + ey = f$	$\frac{1}{\begin{vmatrix} a & b \\ d & e \end{vmatrix}} \left(\begin{vmatrix} c & b \\ f & e \end{vmatrix} \middle \begin{vmatrix} a & c \\ d & f \end{vmatrix} \right)$
Also apply Cramer's rule to 3 equations with 3 unknowns	

Trig

Reference Triangles:
$\sin \theta = \frac{b}{h}$; $\cos \theta = \frac{a}{h}$; $\tan \theta = \frac{b}{a}$
$\csc \theta = \frac{h}{b}$; $\sec \theta = \frac{h}{a}$; $\cot \theta = \frac{a}{b}$
BowTie

Geometry One Unit Series In Precalculus Mathematics

Raffaella Di Napoli



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