

PreCalculus Formulas



Sequences and Series:

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

Functions:

<u>To find the inverse function:</u> $f^{-1}(x)$ 1. Set function = y 2. Interchange the variables 3. Solve for y		<u>Composition of functions</u> $(f \circ g)(x) = f(g(x))$ $(g \circ f)(x) = g(f(x))$ $(f \circ f^{-1})(x) = x$
<u>Algebra of functions:</u> $(f+g)(x) = f(x) + g(x)$; $(f-g)(x) = f(x) - g(x)$ $(f \cdot g)(x) = f(x) \cdot g(x)$; $(f \div g)(x) = f(x) \div g(x)$, $g(x) \neq 0$ <u>Domains:</u> $D(f(x)) \cap D(g(x))$		
<u>Domain</u> (usable x's) Watch for problems with zero denominators and with negatives under radicals.	<u>Asymptotes (vertical)</u> Check to see if the denominator could ever be zero. $f(x) = \frac{x}{x^2 + x - 6}$	<u>Asymptotes (horizontal)</u> 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
<u>Range</u> (y's used)	Vertical asymptotes at $x = -3$ and $x = 2$	
<u>Difference Quotient</u> $\frac{f(x+h) - f(x)}{h}$ terms not containing a mult. of h will be eliminated.		

Complex and Polars:

<u>DeMoivre's Theorem:</u> $[r(\cos \theta + i \sin \theta)]^n = r^n (\cos n \cdot \theta + i \sin n \cdot \theta)$ $r = \sqrt{a^2 + b^2}$ $x = r \cos \theta$ $\theta = \arctan \frac{b}{a}$ $y = r \sin \theta$ $(r, \theta) \rightarrow (x, y)$		$a + bi$ $i = \sqrt{-1}$ $i^2 = -1$
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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.
<u>Cramer's Rule:</u> $ax + by = c$ $dx + ey = f$ $\frac{1}{\begin{vmatrix} a & b \\ d & e \end{vmatrix}} \left(\begin{vmatrix} c & b \\ f & e \end{vmatrix}, \begin{vmatrix} a & c \\ d & f \end{vmatrix} \right)$	
Also apply Cramer's rule to 3 equations with 3 unknowns.	

Trig:

<u>Reference Triangles</u>	
$\sin \theta = \frac{o}{h}$; $\cos \theta = \frac{a}{h}$; $\tan \theta = \frac{o}{a}$ $\csc \theta = \frac{h}{o}$; $\sec \theta = \frac{h}{a}$; $\cot \theta = \frac{a}{o}$	

Elementary Functions For Precalculus Mat

David A. Sprecher



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Precalculus Mathematics David A. Sprecher,1974 *Precalculus* Robert P. Webber,1980 Whitaker's Cumulative Book List ,1984 Elementary Functions; Pre-calculus Mathematics D. Franklin Wright,Kenneth E. Lindgren,1973
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Elementary Functions for Precalculus Mathematics David Presser,Israel H. Rose,Esther R. Phillips,1978
Elementary Functions Alan J. Heckenbach,J. Colby Kegley,1970 May 2001 **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography,1978 **Precalculus** Franklin D. Demana,1997 **An Approach to Precalculus Mathematics. Elementary Functions** Alan J. Heckenbach,Carl Barnett Allendoerfer,J. Colby Kegley,1970 *Paperbacks in Print* ,1980 *Subject Catalog* Library of Congress,1977

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