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^{th} 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

$$S_n = a_1\left(\frac{1-r^n}{1-r}\right)$$

Complex and Polars:

DeMoivre's Theorem:

$$[r(\cos\theta + i\sin\theta)]^n = r^n(\cos n\theta + i\sin n\theta)$$

$$r = \sqrt{a^2 + b^2} \qquad \theta = \arctan\frac{b}{a}$$

$$x = r\cos\theta \qquad y = r\sin\theta \qquad (r,\theta) \to (x,y)$$

$a + bi$

$i = \sqrt{-1}$

$i^2 = -1$

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: $(f+g)(x) = f(x) + g(x)$; $(f-g)(x) = f(x) - g(x)$

$(f \cdot g)(x) = f(x) \cdot g(x)$; $(f/g)(x) = f(x)/g(x)$, $g(x) \neq 0$

Domains: $D(f(x)) \cap D(g(x))$

Domain (usable x's)
Watch for problems with zero denominators and with negatives under radicals.

Range (y's used)

Difference Quotient

$$\frac{f(x+h) - f(x)}{h}$$

terms not containing a mult. of h will be eliminated.

Asymptotes: (vertical)
Check to see if the denominator could ever be zero.

$$f(x) = \frac{x}{x^2 + x - 6}$$

Vertical asymptotes at $x = -3$ and $x = 2$

Asymptotes: (horizontal)

1. $f(x) = \dfrac{x+3}{x^2-2}$

top power < bottom power means y = 0 (x-axis)

2. $f(x) = \dfrac{4x^2-5}{3x^2+4x+6}$

top power = bottom power means y = 4/3 (coefficients)

3. $f(x) = \dfrac{x^3}{x+4}$ None!

top power > bottom power

Determinants:

$$\begin{vmatrix} 3 & 5 \\ 4 & 3 \end{vmatrix} = 3\cdot 3 - 5\cdot 4$$

Use your calculator for 3x3 determinants.

Cramer's Rule:

$$ax + by = c$$
$$dx + ey = f$$

$$\frac{1}{\begin{vmatrix} a & b \\ d & e \end{vmatrix}} \left(\begin{vmatrix} c & b \\ f & e \end{vmatrix}, \begin{vmatrix} a & c \\ d & f \end{vmatrix} \right)$$

Also apply Cramer's rule to 3 equations with 3 unknowns

Trig:

Reference Triangles:

$$\sin\theta = \frac{o}{h}; \quad \cos\theta = \frac{a}{h}; \quad \tan\theta = \frac{o}{a}$$

BowTie

$$\csc\theta = \frac{h}{o}; \quad \sec\theta = \frac{h}{a}; \quad \cot\theta = \frac{a}{o}$$

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Precalculus Algebra Trigonometry And Geometry

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Precalculus Algebra Trigonometry And Geometry:

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