

# Precalculus Cheat Sheet

## §5.1 Polynomial Functions and Models (review)

### Steps to Analyze Graph of Polynomial

1. y-intercepts:  $f(0)$
2. x-intercepts:  $f(x) = 0$
3.  $f$  crosses  $f$  touches axis @ x-intercepts
4. End behavior: like leading term
5. Find max/min turning pts of  $f$ :  $(n-1)$
6. Behavior near zeros for each x-intercept
7. May need few extra pts to draw fn.

## §5.2 Rational Functions

### Finding Horizontal/Oblique Asymptotes of R

where degree of numer. =  $n$  and degree of denomin. =  $m$

1. If  $n < m$ , horizontal asymptote:  $y = 0$  (the x-axis).
2. If  $n = m$ , line  $y = \frac{a_n}{a_m}$  is a horizontal asymptote.
3. If  $n = (m + 1)$ , quotient from long div is  $ax + b$  and line  $y = ax + b$  is oblique asymptote.
4. If  $n > (m + 1)$ , R has no asymptote.

## §7.6 Graphing Sinusoidals

### Graphing $y = A \sin(\omega x)$ & $y = A \cos(\omega x)$

$|A|$  = amplitude (stretch/shrink vertically)

$|A| < 1$  shrink  $|A| > 1$  stretch  $A < 0$  reflect  
Distance from min to max =  $2A$

$\omega$  = frequency (stretch/shrink horizontally)

$|\omega| < 1$  stretch  $|\omega| > 1$  shrink  $\omega < 0$  reflect  
period =  $T = \frac{2\pi}{|\omega|}$



## §7.8 Phase Shift = $\frac{\pi}{\omega}$

$$y = A \sin(\omega x - \phi) + B$$

$$y = A \cos(\omega x - \phi) + B$$

## §8.1 Inverse Sin, Cos, Tan Fns

$$y = \sin^{-1}(x) \quad \text{Restrict range to } [-\pi/2, \pi/2]$$

$$y = \cos^{-1}(x) \quad \text{Restrict range to } [0, \pi]$$

$$y = \tan^{-1}(x) \quad \text{Restrict range to } \left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$$

## §8.2 Inverse Trig Fns (com't)

$$y = \sec^{-1} x \quad \text{where } |x| \geq 1 \text{ and } 0 \leq y \leq \pi, \quad y \neq \frac{\pi}{2}$$

$$y = \csc^{-1} x \quad \text{where } |x| \geq 1 \text{ and } -\frac{\pi}{2} \leq y \leq \frac{\pi}{2}, \quad y \neq 0$$

$$y = \cot^{-1} x \quad \text{where } -\infty < x < \infty \text{ and } 0 < y < \pi$$

## §8.3 Trig Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta} \quad \cot \theta = \frac{\cos \theta}{\sin \theta}$$

$$\csc \theta = \frac{1}{\sin \theta} \quad \sec \theta = \frac{1}{\cos \theta} \quad \cot \theta = \frac{1}{\tan \theta}$$

Pythagorean:  $\sin^2 \theta + \cos^2 \theta = 1$

$$\tan^2 \theta + 1 = \sec^2 \theta \quad \cot^2 \theta + 1 = \csc^2 \theta$$

## §8.4 Sum & Difference Formulae

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\tan \alpha \pm \tan \beta}{1 \mp \tan \alpha \tan \beta}$$

## §8.5 Double-Angle & Half-Angle Formulae

$$\sin(2\alpha) = 2 \sin \alpha \cos \alpha \quad \cos(2\alpha) = \cos^2 \alpha - \sin^2 \alpha$$

$$\cos(2\alpha) = 1 - 2 \sin^2 \alpha = 2 \cos^2 \alpha - 1$$

$$\tan(2\alpha) = \frac{2 \tan \alpha}{1 - \tan^2 \alpha}$$

$$\sin\left(\frac{\alpha}{2}\right) = \pm \sqrt{\frac{1 - \cos \alpha}{2}} \quad \cos\left(\frac{\alpha}{2}\right) = \pm \sqrt{\frac{1 + \cos \alpha}{2}}$$

$$\tan\left(\frac{\alpha}{2}\right) = \pm \sqrt{\frac{1 - \cos \alpha}{1 + \cos \alpha}} = \frac{1 - \cos \alpha}{\sin \alpha} = \frac{\sin \alpha}{1 + \cos \alpha}$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

## §9.2 Law of Sines

## §9.3 Law of Cosines

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

## §9.4 Area of Triangle

$$K = \frac{1}{2} bc \sin A = \frac{1}{2} ac \sin B = \frac{1}{2} ab \sin C$$

## Heron's Formula $s = \frac{1}{2}(a + b + c)$

$$K = \sqrt{s(s-a)(s-b)(s-c)}$$

## §9.5 Simple & Damped Harmonic Motion

### Simple Harmonic Motion

$$d = a \cos(\omega t) \quad \text{or} \quad d = a \sin(\omega t)$$

### Damped Harmonic Motion

$$d(t) = ae^{-b(t)/2m} \cos\left(\sqrt{\omega^2 - \frac{b^2}{4m^2}} t\right)$$

where  $a, b, m$  constants:

$b$  = damping factor (damping coefficient)

$m$  = mass of oscillating object

$|a|$  = displacement at  $t = 0$

$\frac{2\pi}{\omega}$  = period if no damping

## §10.1 Polar Coordinates

### Convert Polar to Rectangular Coordinates

$$x = r \cos \theta \quad y = r \sin \theta$$

### Convert Rectangular to Polar Coordinates

If  $x = y = 0$  then  $r = 0$ ,  $\theta$  can have any value

$$\text{else } r = \sqrt{x^2 + y^2}$$

$$\theta = \begin{cases} \tan^{-1}\left(\frac{y}{x}\right) & Q_1 \text{ or } Q_2 \\ \tan^{-1}\left(\frac{y}{x}\right) + \pi & Q_3 \text{ or } Q_4 \\ \pi/2 & x = 0, y > 0 \\ -\pi/2 & x = 0, y < 0 \end{cases}$$

## §10.3 Complex Plane & De Moivre's Theorem

Conjugate of  $z = x + yi$  is  $\bar{z} = x - yi$

Modulus of  $z$ :  $|z| = \sqrt{z\bar{z}} = \sqrt{x^2 + y^2}$

### Products & Quotients of Complex Nbs (Polar)

$$z_1 = r_1 (\cos \theta_1 + i \sin \theta_1) \quad z_2 = r_2 (\cos \theta_2 + i \sin \theta_2)$$

$$z_1 z_2 = r_1 r_2 [\cos(\theta_1 + \theta_2) + i \sin(\theta_1 + \theta_2)]$$

$$\frac{z_1}{z_2} = \frac{r_1}{r_2} [\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2)] \quad z_2 \neq 0$$

### De Moire's Theorem $z = r (\cos \theta + i \sin \theta)$

$$z^n = r^n [\cos(n\theta) + i \sin(n\theta)] \quad n \geq 1$$

### Complex Roots $n \geq 2, k = 0, 1, 2, \dots, (n-1)$

$$z_k = \sqrt[n]{r} \left[ \cos\left(\frac{\theta}{n} + \frac{2k\pi}{n}\right) + i \sin\left(\frac{\theta}{n} + \frac{2k\pi}{n}\right) \right]$$

where  $k = 0, 1, 2, \dots, (n-1)$

# Precalculus Mathematics A Study Of Functions

**IM Harris**



## **Precalculus Mathematics A Study Of Functions:**

*Precalculus Mathematics* George W. Polites,1991-01-01      *Precalculus* Todd Swanson,Janet Andersen,2001

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Lawrence A. Trivieri,1972      **Precalculus** Antonio G. Pizarro,1996      Integrating Research on the Graphical Representation of Functions Thomas A. Romberg,Elizabeth Fennema,Thomas P. Carpenter,2012-10-12 This volume focuses on the important mathematical idea of functions that with the technology of computers and calculators can be dynamically represented in ways that have not been possible previously The book s editors contend that as result of recent technological developments combined with the integrated knowledge available from research on teaching instruction students thinking and assessment curriculum developers researchers and teacher educators are faced with an unprecedented opportunity for making dramatic changes The book presents content considerations that occur when the mathematics of graphs and functions relate to curriculum It also examines content in a carefully considered integration of research that conveys where the field stands and where it might go Drawing heavily on their own work the chapter authors reconceptualize research in their specific areas so that this knowledge is integrated with the others strands This model for synthesizing research can serve as a paradigm for how research in mathematics education can and probably should proceed      Elementary Functions for Precalculus Mathematics David Presser,Israel H. Rose,Esther R. Phillips,1978      Mathematics Education in Secondary Schools and Two-year Colleges Paul J. Campbell,Louise S. Grinstein,1988      Precalculus David Lippman,2013-01-26

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**Precalculus** Swanson,2000-07-01 **Bold Ventures** Raizen,2012-12-06 This book presents comprehensive results from case studies of three innovations in mathematics education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 2 of Bold Ventures pre sents the results from case studies of five innovations in science education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least one if not all of the mathematics innovations discussed in this volume for example the NCTM Standards and probably with their general substance Much of the education community s familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects themselves

**The Concept of Function** Barbara A. Becker,1991 *The National union catalog, 1968-1972 ,1973* **Precalculus Mathematics** Max A. Sobel,Norbert Lerner,1995 Appropriate for introductory courses in College Algebra and Precalculus Sobel and Lerner provide teachers with a teachable text and students with a readable text that will properly prepare them for future courses particularly calculus The text is designed specifically to ease the transition to calculus and directly involve the graphing calculator

**Students' Conceptualizations of Mathematical Functions** Jan Marie Rizzuti,1991 **Elementary Functions and Coordinate Geometry** Sze-Tsen Hu,1969 *Subject Catalog* Library of Congress,1980 **Library of Congress Catalogs** Library of Congress,1980

## Unveiling the Magic of Words: A Review of "**Precalculus Mathematics A Study Of Functions**"

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