Precalculus Cheat Sheet

§5.1 Polynomial Functions and Models (review) Steps to Analyze Graph of Polynomial

- 1. y-intercepts: f /file
- x-intercept: f(x) = 0
- 3. / crosses / touches axis (ii) x-intercepts
- 4. End behavior: like leading term
- 5. Find max mum turning pts of f:
- Behavior near zeros for each x-intercept
- 7. May need few extra pts to draw fon.

§5.2 Rational Functions

Finding Horizontal/Oblique Asymptotes of R

where degree of numer. - n and degree of denom. - m

- If n < m, horizontal asymptote: y = 0 (the x-axis).
- If n = m, line y = ^{an}/_{bm} is a horizontal asymptote.
- 3. If n = (m + 1), quotient from long div is ax + b and line y = axb is oblique asymptote.
- 4. If n > (m + 1), R has no asymptote.

§7.6 Graphing Sinusoidals

Graphing $v = A \sin(\cos x) dx v = A \cos(\cos x)$

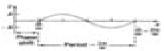
[A] = amplitude (stretch/shrink vertically)

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

as " frequency (stretch/shrink borizontally). $|m| \le 1$ strench $|m| \ge 1$ shrink $m \le 0$ reflect period - T - 27

§7.8 Phuse Shift = Z

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



§8.1 Inverse Sin, Cos, Tan Fens

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

 $v = \cos^{-1}(x)$ Restrict range to $[0, \pi]$ $y = tan^{-1}(x)$ Restrict range to $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$

§8.2 Inverse Trig Fens (con't)

 $y \neq \emptyset$ $y = pec^d x$ where $|x| \ge 1$ and $0 \le y \le \pi$, where $|x| \ge 1$ and $-\frac{\pi}{2} \le y \le \frac{\pi}{2}$. $y = \cos e^{\alpha} x$ WHEN DE where $-\infty < x < \infty$ and 0 < y < x

88.3 Trig Identities

 $tam\theta = \sin\theta$ csc # = -Activity (8)

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

§8.4 Sum & Difference Formulae.

 $cos(\alpha \pm \beta) = cos \alpha cos \beta \mp sin \alpha sin \beta$ $sin(\alpha \pm \beta) = sin \alpha \cos \beta \pm \cos \alpha \sin \beta$ $tam(\alpha \pm \beta) = \frac{tam(\alpha) \pm tam(\beta)}{17tam(\alpha) tam(\beta)}$

88.5 Double-Angle & Half-Angle Formulae

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

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

$$\sin\left(\frac{\sigma}{z}\right) = \pm \sqrt{\frac{1-\cos(\sigma)}{z}} \cos\left(\frac{\sigma}{z}\right) = \pm \sqrt{\frac{1+\cos(\sigma)}{z}}$$

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

§9.3 Law of Cosines

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

$$a^{2} = b^{2} + c^{2} - 2bc \cos A$$

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

 $\omega t = \omega \sin t \cos t \lambda$

89.4 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 & Dumped Harmonic Motion

Simple Harmonic Motion

$$d = a \cos(\omega t)$$
 or

Damped Harmonic Motion

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

where a, b, in constants:

b = damping factor (damping coefficients

as = mass of oscillating object

let = displacement at t = 0

2# = period if no damping

§10.1 Polar Coordinates

Convert Polar to Rectangular Coordinates

 $y = r \sin \theta$ at the process of the

Convert Rectangular to Polar Coordinates

If x = y = 0 then r = 0, θ can have any value

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

$$\theta = \begin{cases} \tan^{-1} (\frac{x}{2}) & Q_1 \text{ or } Q_{1V} \\ \tan^{-1} (\frac{x}{2}) + \pi & Q_{10} \text{ or } Q_{10} \\ \pi/2 & x = 0, y > 0 \\ \pi/2 & x = 0, y < 0 \end{cases}$$

§10.3 Complex Plane & De Moivre's Theorem

Conjugate of z = x + yi is Z = x + yi

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

Products & Quotients of Complex Nbs (Polar)

 $x_i = r_i \operatorname{food} \theta_i + i \operatorname{sin} \theta_i$ $x_2 = r_2 f \cos \theta_1 + I \sin \theta_2 I$

 $z_1z_2 = r_1r_2[\cos(\theta_1 + \theta_2) + i\sin(\theta_1 + \theta_2)]$

 $\frac{\theta_1}{\theta_2} = \frac{\theta_1}{\theta_2} \left[\cos(\theta_1 - \theta_2) + i \sin(\theta_1 - \theta_2) \right] z_7 \neq 0.$

De Moire's Theorem $z = r / \cos \theta + i \sin \theta$ $x^n = r^n[\cos(n\theta) + i\sin(n\theta)]$

Complex Roots $n \ge 2$, k = 0, 1, 2, ..., (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, ..., (n - 1)

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