

# Precalculus Cheat Sheet

## §5.1 Polynomial Functions and Models (review)

### Steps to Analyze Graph of Polynomial

1. y-intercept:  $f(0)$
2. x-intercept:  $f(x) = 0$
3.  $f$  crosses / 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  $f$ .

## §5.2 Rational Functions

### Finding Horizontal/Oblique Asymptotes of R

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

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 Sinusoids

### 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

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

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

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

## §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

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

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

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

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

## §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

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

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

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

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

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

## §9.2 Law of Sines

## §9.3 Law of Cosines

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

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

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

## §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

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

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

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

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

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

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

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causas el carcinoma de células renales es el tipo más común de cáncer renal en los adultos y ocurre con mayor frecuencia en hombres de 60 a 70 años de edad no se conoce con exactitud su causa los siguientes factores pueden incrementar el riesgo de cáncer renal tabaquismo obesidad tratamiento con diálisis

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del propietario en la presentación y evolución de los casos y también incluye indicaciones y consejos para el veterinario alteraciones renales del paciente oncológico alteraciones renales del paciente oncológico las complicaciones renales asociadas al cáncer son decisivas para la calidad y la esperanza de vida de

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por la edad el paciente oncológico asocia alteraciones renales frecuentes la edad media de los pacientes en el momento del diagnóstico de cáncer es de 65 años del 47 de los sobrevivientes de cáncer casi la mitad tienen 70 años o más y solo un 5 tiene menos de 40 años el envejecimiento de la población aumenta el número de

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entre las principales situaciones metabólicas que pueden precisar atención urgente en el paciente oncológico se encuentran hipercalcemia hiponatremia síndrome de lisis tumoral acidosis láctica hiperuricemia insuficiencia renal hiperamonemia hiperpotasemia etc

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consenso sobre trasplante renal en paciente con cáncer o donante renal con cáncer el paciente oncológico y la lesión renal aguda poscontraste lesión renal aguda poscontraste yodado de especial interés es la nefropatía inducida por contraste yodado en el paciente con cáncer estos pacientes son sometidos con frecuencia a

**protocolo diagnóstico de la insuficiencia renal en el paciente - Apr 20 2023**

may 1 2017 la insuficiencia renal en el paciente oncológico se presenta hasta en un tercio de los casos se define como una disminución del filtrado glomerular renal que produce una elevación de la urea y la creatinina así como alteraciones hidroelectrolíticas y una acumulación de productos tóxicos

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el aumento de la producción de calcitriol un metabolito de la vitamina d3 como se observa en la mayoría de los casos de la enfermedad de hodgkin y en algunos casos de linfomas no hodgkin 5 se produce un aumento de la reabsorción

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may 18 2021 los pacientes con cáncer presentan con mayor frecuencia lag de cualquier etiología tienen más enfermedad renal crónica que es un factor de riesgo para la lag frecuentemente son sometidos a exámenes que requieren el uso de agentes de contraste yodados para controlar la progresión de su enfermedad y viven en un ambiente nefrotóxico

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**diagnóstico y tratamiento del cáncer renal en el adulto imss - Feb 18 2023**

el cáncer renal comprende del 2 al 3 de todas las neoplasias presentándose en población con edad promedio de 65 años cerca del 90 de los tumores renales son carcinoma de células renales ccr y de ellos el 85 corresponde a carcinoma de células claras otras histologías menos comunes incluyen el papilar