

BC Calc Memorization Sheet

Derivatives

$$\frac{d}{dx} x^n = nx^{n-1}$$

$$\frac{d}{dx} \ln x = \frac{1}{x}$$

$$\frac{d}{dx} \log_b x = \frac{1}{x \ln b}$$

$$\frac{d}{dx} e^x = e^x$$

$$\frac{d}{dx} b^x = b^x \cdot \ln b$$

$$\frac{d}{dx} \sin x = \cos x$$

$$\frac{d}{dx} \cos x = -\sin x$$

$$\frac{d}{dx} \tan x = \sec^2 x$$

$$\frac{d}{dx} \sec x = \sec x \cdot \tan x$$

$$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} \arccos x = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} \arctan x = \frac{1}{1+x^2}$$

Differentiation Rules

Prod.

$$\frac{d}{dx} (f \cdot g) = f'g + fg'$$

Quot.

$$\frac{d}{dx} \left(\frac{f}{g} \right) = \frac{f'g - fg'}{g^2}$$

Chain

$$\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x)$$

Definition of Derivative

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

Inv Fun Theorem

$f(x)$ (a,b) slope = m

$f^{-1}(x)$ (b,a) slope = $\frac{1}{m}$

Integrals

$$\int x^n dx = \frac{x^{n+1}}{n+1} + C, n \neq -1$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

Integration Rules

U-Substitution

$$\int f(g(x)) dx \quad \text{let } u = g(x)$$

Integration by Parts

$$\int u dv = uv - \int v du$$

Decomposing into P.F.

$$\frac{1}{(cx+d)(hx+k)} = \frac{A}{(cx+d)} + \frac{B}{(hx+k)}$$

Trig Identities

$$\tan x = \frac{\sin x}{\cos x}$$

$$\sin^2 x + \cos^2 x = 1$$

L'Hopital's Rule

$$\text{If } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{0}{0} \text{ or } \frac{\infty}{\infty},$$

$$\text{then } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)}$$

Volume

Disc

$$V = \pi \int_a^b r^2 dx$$

Washer

$$V = \pi \int_a^b (R^2 - r^2) dx$$

Shell

$$V = 2\pi \int_a^b rh dx$$

Cross Section

$$V = \int_a^b A dx$$

First Fundamental Theorem

$$\frac{d}{dx} \int_a^{g(x)} f(t) dt = f(g(x)) \cdot g'(x)$$

Second Fundamental Theorem

$$\int_a^b f(t) dt = F(b) - F(a) \quad \text{where } F'(x) = f(x)$$

Position, Vel, Acc

$$v(t) = \frac{d}{dt}(\text{pos}) \quad a(t) = \frac{d}{dt}(v(t))$$

$$\text{displacement} = \int_a^b v(t) dt$$

$$T.D.T. = \int_a^b |v(t)| dt$$

$$\text{speed} = |vel|$$

Alt. Series Error: error $\leq |a_{n+1}|$ (the next term)

Lagrange Error:

$$\text{error} \leq \left| \frac{f^{(n+1)}(c)(b-a)^{n+1}}{(n+1)!} \right| \quad \text{where}$$

$$|f^{(n+1)}(c)|$$

is the maximum value of $f^{(n+1)}(x)$ on $[a,b]$.

McLaurin Series to have memorized

$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots + \frac{x^n}{n!} + \dots$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots + \frac{(-1)^n x^{2n+1}}{(2n+1)!} + \dots$$

$$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots + \frac{(-1)^n x^{2n}}{(2n)!} + \dots$$

Logistic

$$\frac{dp}{dt} = \frac{k}{M} P (M - P)$$

$$P = \frac{M}{1 + C e^{-kt}}$$

M = carrying capacity

Pt Slope Form

$$y - y_1 = m(x - x_1)$$

Taylor Series

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \frac{f'''(a)}{3!}(x-a)^3 + \dots + \frac{f^{(n)}(a)}{n!}(x-a)^n + \dots$$

Maclaurin Series (Taylor series with $a = 0$)

Euler's Method

(x,y)	$\frac{dy}{dx}$	Δx	$\Delta y = \frac{dy}{dx} \Delta x$	(x,y)

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M Walker



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web oct 13 2020 during the s phase the cell replicates its genome in preparation for cell division or mitosis mitosis occurs during m phase which occurs after interphase phases mitosis is conventionally divided into 5 phases which include prophase

prometaphase metaphase anaphase and telophase and cytokinesis

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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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web jan 25 2023 q 2 what are the stages of mitosis ans the stage of mitosis are as follows a prophase b metaphase c anaphase d telophase q 3 what is the significance of mitosis ans the following are the significance of mitosis a growth and development b repair c healing and regeneration d genetic stability q 4 why is

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web study with quizlet and memorize flashcards containing terms like chromosomes move to the middle of the spindle during what phase what are sister chromatids

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web nov 3 2023 verified hint mitosis is the stage in the cell cycle in which the newly formed dna splits and two new cells are formed with the same number and type of chromosomes as the nucleus of the parent cell mitosis is an asexual reproduction mechanism found in single celled species complete answer mitosis is a form of cell division in which two