

# AP CALC AB FORMULA STUDY GUIDE

## Properties of Limits

$$\lim_{x \rightarrow a} [f(x) + g(x)] = \lim_{x \rightarrow a} f(x) + \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} [f(x) - g(x)] = \lim_{x \rightarrow a} f(x) - \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} [c \cdot f(x)] = c \lim_{x \rightarrow a} f(x)$$

$$\lim_{x \rightarrow a} [f(x)g(x)] = \lim_{x \rightarrow a} f(x) \cdot \lim_{x \rightarrow a} g(x)$$

$$\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)} \quad \text{if } \lim_{x \rightarrow a} g(x) \neq 0$$

$$\lim_{x \rightarrow a} [f(x)]^n = \left[ \lim_{x \rightarrow a} f(x) \right]^n$$

$$\lim_{x \rightarrow a} \sqrt[n]{f(x)} = \sqrt[n]{\lim_{x \rightarrow a} f(x)}$$

**Direct Substitution Property**  
If  $f$  is a polynomial or a rational function and  $a$  is in the domain of  $f$ , then  $\lim_{x \rightarrow a} f(x) = f(a)$ .

## Theorems

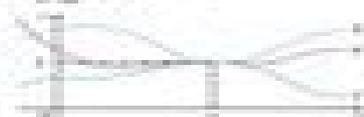
$$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1 \quad \lim_{x \rightarrow 0} \frac{\cos x - 1}{x} = 0$$

$$\lim_{x \rightarrow a} f(g(x)) = f\left(\lim_{x \rightarrow a} g(x)\right)$$

## The Squeeze Theorem

Given  $f(x) \leq g(x) \leq h(x)$  for values of  $x$  near  $a$ , except possibly at  $a$ . If  $\lim_{x \rightarrow a} f(x) = \lim_{x \rightarrow a} h(x) = L$ ,

then  $\lim_{x \rightarrow a} g(x) = L$ .



## Continuity

$f$  is continuous at a number  $a$ , if (1)  $f(a)$  is defined

(2)  $\lim_{x \rightarrow a} f(x)$  exists

(3)  $\lim_{x \rightarrow a} f(x) = f(a)$

## Discontinuities



## Vertical Asymptote(s) of $f$

The line  $x = a$  is a vertical asymptote of  $y = f(x)$  if at least one of the following statements is true:

$$\lim_{x \rightarrow a^-} f(x) = \pm\infty \quad \lim_{x \rightarrow a^+} f(x) = \pm\infty$$

$$\lim_{x \rightarrow a^-} f(x) = \pm\infty \quad \lim_{x \rightarrow a^+} f(x) = \pm\infty$$

$$\lim_{x \rightarrow a^-} f(x) = \pm\infty \quad \lim_{x \rightarrow a^+} f(x) = \pm\infty$$

## Infinite Limits

$$\lim_{x \rightarrow a} f(x) = \pm\infty$$

- If  $f(x)$  grows faster, the limit is  $\pm\infty$ .
- If  $g(x)$  grows faster, the limit is 0.
- If  $f(x) = x^m$  &  $g(x) = x^n$  are polynomials with the same degree, the limit equals the ratio of their leading coefficients.

## Horizontal Asymptote(s) of $f$

$$y = \lim_{x \rightarrow \pm\infty} f(x) \quad \text{or} \quad y = \lim_{x \rightarrow \pm\infty} f(x)$$

## Intermediate Value Theorem

If  $f$  is continuous on  $[a, b]$  and  $M$  is any number between  $f(a)$  and  $f(b)$ , then there is at least one number  $c$  in  $[a, b]$  such that  $f(c) = M$ .



**Average Rate of Change** of a function  $f(x)$  over closed interval  $[a, b]$  is

$$\frac{f(b) - f(a)}{b - a}$$

## Definition of a Derivative

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

$$f'(a) = \lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a}$$

## Not Differentiable



Sharp Corner

Jump Discontinuity

Vertical Tangent

## Differentiation Rules

$$\frac{d}{dx}(c) = 0$$

$$\frac{d}{dx}[c \cdot f(x)] = c \frac{d}{dx}[f(x)]$$

$$\frac{d}{dx}[f(x) + g(x)] = \frac{d}{dx}f(x) + \frac{d}{dx}g(x)$$

$$\frac{d}{dx}[f(x) - g(x)] = \frac{d}{dx}f(x) - \frac{d}{dx}g(x)$$

## Derivatives

$$\frac{d}{dx}(x^n) = nx^{n-1} \quad \frac{d}{dx}(\sin x) = \cos x$$

$$\frac{d}{dx}(x^n) = x^n \quad \frac{d}{dx}(\cos x) = -\sin x$$

$$\frac{d}{dx}(e^x) = e^x \quad \frac{d}{dx}(\tan x) = \sec^2 x$$

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

## Derivatives of Inverse

$$\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\cos^{-1} x) = \frac{-1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx}(f^{-1}(x)) = \frac{1}{f'(f^{-1}(x))}$$

## Product Rule

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

## Quotient Rule

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

## Chain Rule

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

## Linear Approximation of $f$ at point $a$

Line approximation of  $f$  at  $a$  is

$$L(x) = f(a) + f'(a)(x - a)$$

# Ap Calculus Exam Study Guide

**Michael Seilmaier**



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web oct 11 2023 top seed carlos alcaraz has been defeated in the last 16 of the shanghai masters by grigor dimitrov world number two alcaraz 20 won three games in a row to take the first set but dimitrov

seeds of doubt mystery remains over how sunflowers track light - Oct 11 2021

web oct 31 2023 over the course of a day sunflowers follow the path of the sun overhead a process known as heliotropism with their heads tilting progressively westwards as a result of cells elongating on

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web 1 day ago fifty participants from 29 countries discussed the progress of the seed site and external events design review service and the capacity building programme on the site and design for nuclear installations during a recent technical meeting at the iaea headquarters in vienna austria specific draft documents that related to seed were

**hefty seed selects meristem s patented bio capsule technology** - Apr 04 2021

web oct 31 2023 meristem crop performance group llc and hefty seed company have announced a strategic alliance and supply agreement focused on increasing the impact of beneficial biologicals on crop production and return on investment roi for american farmers hefty seed company s stellar reputation for bringing the best in crop inputs

**life cycle of a plant science nature national geographic kids** - Apr 28 2023

web filament supports the anther pistil the female part of the plant sometimes called the carpel stigma collects pollen grains style allows pollen to pass to the ovary ovary produces seeds inside tiny ovules sepal found outside the petals the sepal protects the flower when it s unopened

**what is the life cycle of a plant bbc bitesize** - May 30 2023

web what is the life cycle of a plant many plants grow out of seeds and bulbs seeds grow roots and shoots roots and shoots then grow leaves above ground many plants make flowers which turn into

**among the grain crops of northern nsw there s a boom of** - May 06 2021

web oct 27 2023 tamworth mum shona robilliard started with a few seeds in her veggie patch but in search of a better work life balance she s ditched the vegetables and is now a fully fledged cut flower farmer

**tencent announces creation of digital seed bank at 11th we** - Sep 09 2021

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throughout history who have planted seeds of humanity's growth participants learned  
*seed form function dispersal germination britannica* - Sep 02 2023

web sep 28 2023 seed the characteristic reproductive body of both angiosperms and gymnosperms essentially a seed consists of a miniature undeveloped plant the embryo which alone or in the company of stored food is surrounded by a protective coat learn more about seed characteristics dispersal and germination

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web jan 19 2023 seed longevity the evolution of knowledge and a conceptual framework by jayanthi nadarajan 1 christina walters 2 hugh w pritchard 3 4 daniel ballesteros 5 and louise colville 3 1 the new zealand institute for plant and food research limited food industry science centre palmerston north 4410 new zealand 2

**plant life cycle for kids smartclass4kids** - Jun 18 2022

web seed dispersal 1 seed the plant life cycle starts with a seed from the outside seeds are protected by a tough layer called outer coat but inside every seed there is a tiny baby plant known as an embryo the embryo has a root shoot as well as the first true leaves seeds wait to germinate until three needs are met water correct

*there's a perfectly logical reason why seed deals are costly now* - Dec 01 2020

web oct 26 2023 the seed market is a bit weird right now on one hand pitchbook reports that at a total of 3.2 billion in the third quarter pre seed and seed deals in the u.s. have fallen to pre pandemic

*not all halloween treats come in wrappers some come in a* - Jul 08 2021

web oct 25 2023 1 preheat the oven to 350 f 2 scoop out all of the guts and seeds from your pumpkin rinse away the slimy fibrous goop that coats the seeds remove as much of the glop as possible then put the seeds in a colander and run under water picking out and rinsing the individual seeds

**it's not crazy to say detroit lions could be no. 1 seed in nfc** - Jul 28 2020

web 1 day ago here's why the lions have a chance to be the no. 1 seed they have by far the easiest remaining schedule of the five contenders i don't think the lions are the best team in the nfc but

seed life chart how long will seeds last gardening channel - May 18 2022

web don't throw them out just yet depending on the type of seed and its quality you may be able to store them and use them next year or the year after in fact some seeds if properly stored can be viable even after ten years some varieties of tomato seeds have even been known to germinate after as long as 16 years

**pegula upsets top seed sabalenka at wta finals** - Apr 24 2020

web nov 1 2023 mandatory credit susan mullane usa today sports reuters jessica pegula upset world number one aryna sabalenka 6 4 6 3 to win her second group stage match at the wta finals in cancun on tuesday

**seed storage and longevity mechanism types and management** - Mar 16 2022

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web a day in the life of a seed movements and fates of seeds and their implications for natural and managed systems annual review of ecology and systematics vol 25 263 292 volume publication date november 1994 doi org 10 1146 annurev es 25 110194 001403

**the life cycle of a tree ecotree** - Dec 13 2021

web feb 8 2022 mature tree ready to reproduce when a tree reaches maturity and can be considered fully grown it is able to produce its very own fruit flowers or nuts that means it can reproduce and its seeds disperse for the life cycle to begin all over again

[rbcx hires former svb canada employees to bolster support for seed](#) - Jan 02 2021

web 2 days ago the royal bank of canada s technology and innovation arm rbcx has brought on four former silicon valley bank svb canada employees becoming the latest in a growing list of canadian banks to snap up employees from the failed tech financier rbcx has hired filip stoj former vice president vp of early stage startups at svb canada to

[how do plants grow from a seed ks2 the regenerators](#) - Jun 30 2023

web find out about the life cycle of a plant from germination to pollination to seed dispersal with this ks2 lesson from bbc bitesize the regenerators

**1 14 the development of seeds biology libretxts** - Nov 23 2022

web oct 13 2021 both the evolution of seeds and the development of any individual seed involve modifications of both the male and the female gametophyte modifications in the structures that produce them and modifications of the timing and location of important developmental processes figure 4 a comparison of life cycles in seed plants and non

*seed of life on steam* - Aug 09 2021

web seed of life is an old school action adventure game set in a world of fantasy and magic when an army of machines suddenly threatens the natural order the seed of life blooms and its power is unleashed you play as hope a spirit of the seed in the shape of a grey wolf on your quest to restore balance to nature you will be accompanied by an

**rule change gives top seed in ncaa women s tourney most rest** - Aug 28 2020

web oct 27 2023 the division i women s basketball committee voted unanimously friday to place the tournament s top seed in a regional pod with game days on friday and sunday ensuring the most rest possible

**seed of life on steam** - Jun 06 2021

web seed of life is a relaxing puzzle game in which you create beautiful and enlightening spirographic patterns adjust the size and speed of each of the spinning rods to recreate wonderfully unique patterns to satisfying and beautiful interactive audiovisual feedback features hundreds of pre built puzzles

**pdf a day in the life of a seed movements and fates of seeds** - Oct 23 2022

web nov 1 1994 jeanne c chambers us forest service rocky mountain research station james a macmahon abstract we develop a model that outlines the movements and fates of seeds after they leave the parent