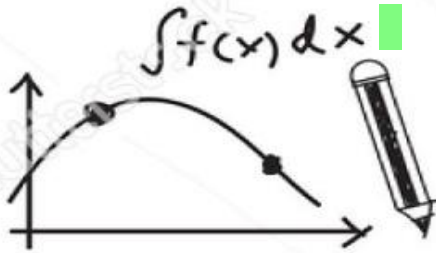



# AP CALCULUS AB 2021-22

$$x^2 - 3x - 4 = 0$$


$$4x^2 - 3x - 1 = 0$$



# Calculus

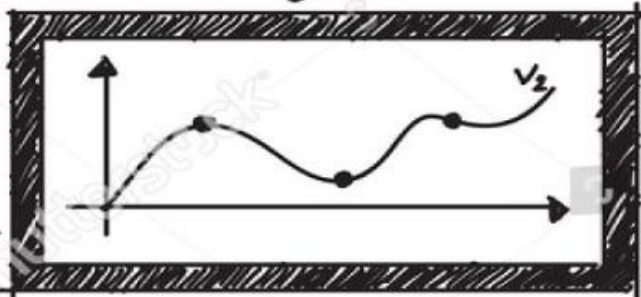
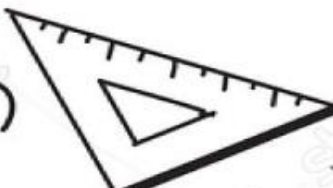

$$\int_a^b f'(x) dx = f(b) - f(a)$$

$$m \frac{d^2 x}{dt^2} = -kx$$


$$\frac{df(x)}{dz}$$

$$\frac{dA}{dt} = \frac{dB}{dt} = -\frac{dC}{dt} = -\frac{dD}{dt} = (d_1)T^{\frac{1}{2}}AB - (d_2)T^{\frac{1}{2}}CD$$

$$x^2 = A \quad \frac{dT}{dt} = (c_3) \frac{dA}{dt} - (c_4)(T_0 - T)$$


$$\left[ x + \frac{b}{2a} \right]^2 = \frac{b^2 - 4ac}{4a^2} \quad x + \frac{b}{2a} = \frac{\sqrt{b^2 - 4ac}}{2a} \quad \text{or} \quad x + \frac{b}{2a} = -\frac{\sqrt{b^2 - 4ac}}{2a} \quad (x+h, f(x+h))$$

# Take a minute now to Sign up for Remind

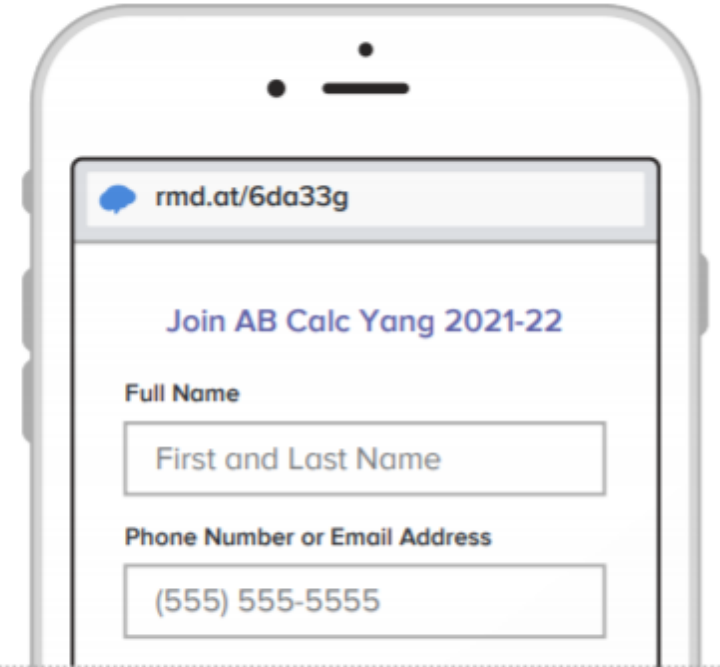
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## A If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

[rmd.at/6da33g](https://rmd.at/6da33g)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



## B If you don't have a smartphone, get text notifications.

Text the message [@6da33g](https://t.me/6da33g) to the number **81010**.

If you're having trouble with **81010**, try texting [@6da33g](https://t.me/6da33g) to (706) 225-2931.

*\* Standard text message rates apply.*



My Teacher Website: [mryangteacher.weebly.com](http://mryangteacher.weebly.com)

(Also embedded on Class TEAMS Page under “Class Website”)



## Mr. Yang's Teacher Website

[Calculus AB/BC](#)

[Accel Pre-Calculus](#)

[Calculus BC](#)

[Non-AP Calculus](#)

[Geometry](#)

[Math Team](#)

[Mu Alpha Theta](#)

### Calculus AB Tab

#### ➤ Class Notes

##### ➤ Begin with

Ch. P Pre-Calculus

#### ➤ Class Calendar

#### ➤ Download textbook pdf onto your device

#### ➤ Syllabus

## AP CALCULUS AB

\*\*\*\*\* 2021 Calculus AB Summer Packet (voluntary pre-calc review, not required, no grade)\*\*\*\*\*

[AB Calculus Summer Packet Problems](#)

[Summer Packet Solutions](#)

[Solution correction #13a](#)

### I. [Class Notes and Videos](#)

### II. [Class Calendar - AP Calculus AB - August 2021](#)

#### III. a) [Calculus Larson Online Textbook 10e](#)

b) [Calc Chat \(Larson 10e\) Textbook Solutions \(Odd-Numbered Problems\)](#)

c) [Slader \(Even & Odd Answers\)](#)

### IV. [Online Resources](#)

### v. [Syllabus Fall 2021 - AP Calculus AB \(Draft\)](#)

My Teacher Website: [mryangteacher.weebly.com](http://mryangteacher.weebly.com)

(Also embedded on Class TEAMS Page under “Class Website”)

Calculus AB/BC    Accel Pre-Calculus    Calculus BC    Non-AP Calculus    Geometry    Math Team    Mu Alpha Theta    more...

Class Notes/Videos > Chapter P

Online Resources    Ch. 1 Limits

\*\*\*\*\* 2021 Calculus AB Summ... (view, not required, no grade)\*\*\*\*\*  
AB Calculus Summer P... Packet Solutions Solution correction #13a

I. Class Notes and...

II. Class Calendar... B - August 2021

III. a) Calculus Larson...  
b) Calc Chat (Lar...  
c) Slader (Even &...

IV. Online Resources...

V. Syllabus Fall 2... s AB (Draft)

Ch. 2 Derivatives

Ch. 2.6 Related Rates

Ch. 3 Curve Sketching / Optimization

Ch. 5 Logs/Exponential(Derivatives)

Trig Unit

Fall Exam Review

Ch. 4 Integrals

Ch. 5, Ch. 6 Log Integrals, Differential Equations

Go to “Chapter P” Page, and practice accessing [Textbook problems](#), [HW Calendar](#), [Notes](#), [Key](#), and [Video](#).

[Calculus AB/BC](#)

[Accel Pre-Calculus](#)

[Calculus BC](#)

[Non-AP Calculus](#)

[Geometry](#)

[Math Team](#)

[Mu Alpha Theta](#)

[more...](#)

## Chapter P Pre-Calculus

0) [Textbook Problems: Ch. P.1](#)   [Ch. P.2](#)   [Ch. P.3](#)   [Ch. P \( Odd Problem Answers \)](#)

### August 2021

[August 2021 HW Calendar](#)

1) (Mon. 8/9) [Syllabus Fall 2021](#)   [August 2021 Calendar](#)  
[Parent Info Sheet](#)   ["Who am I?" handout](#)

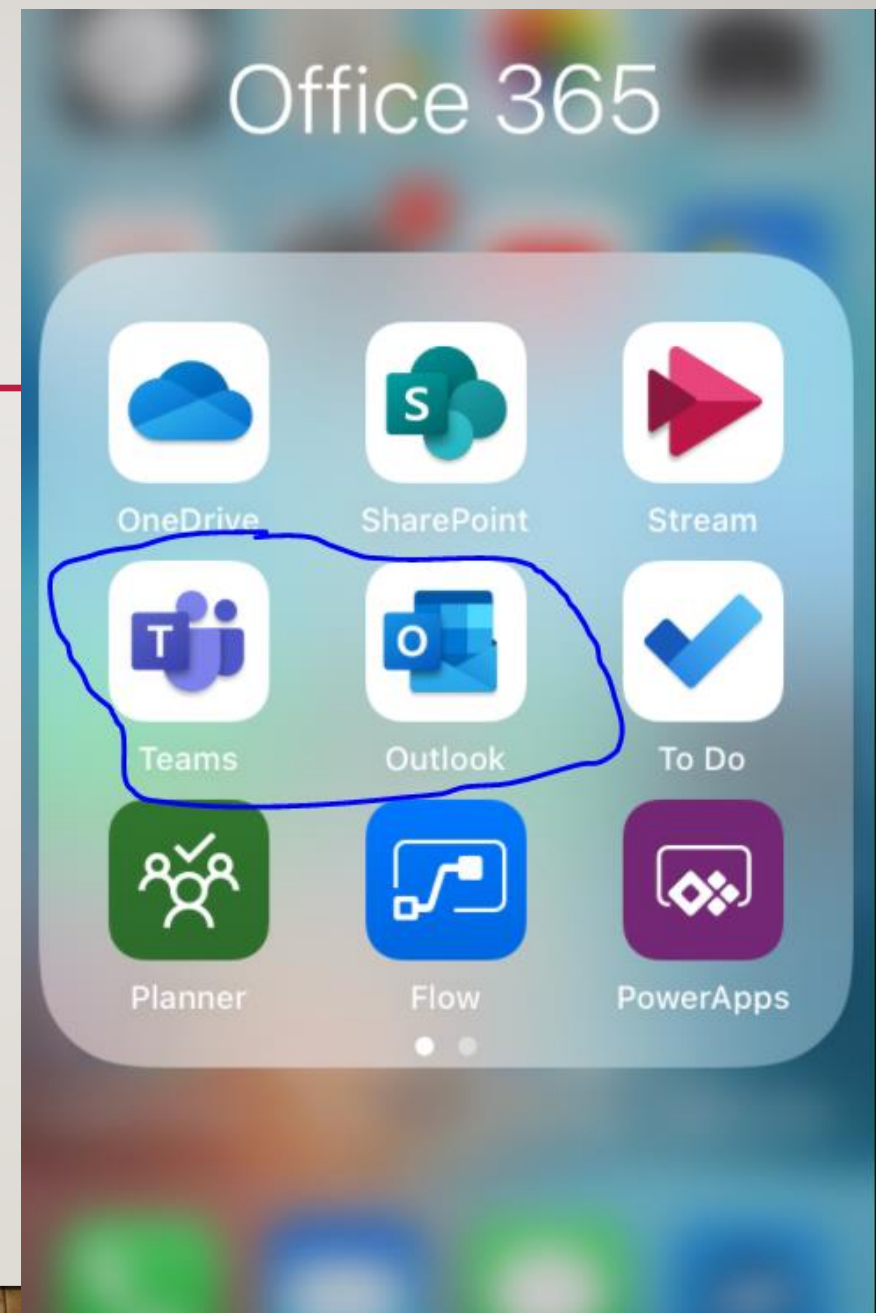
2) (Tues 8/10) [Ch. P1-P3 Handout Notes](#)   [notes.key](#)   [P1.video](#)   [P2.video](#)   [P3.video](#)  
[P1-P3 Homework 2017](#)

3) (Wed 8/11) [Ch. P2 Notes/Practice continued](#)

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I encourage you all to download the TEAMS and Outlook App on your Mobile Device

- TEAMS App allows for easy submission of assignments: (take photo of your work and submit through TEAMS)
- Outlook App for easy access checking emails on your school account



# Highlights from our Class Syllabus

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- Grading Scale: **Tests: 55%** **Quiz: 35%** **Homework: 10%**
- All Tests and Quizzes will be **CLOSED NOTES**. (No open-notes test/quiz this school year)
- Final Fall Exam will be a test grade. Required to take, but cannot hurt your semester grade. Can be used to replace lowest test (or quiz) grade.
- Homework will be assigned and checked daily. **Daily routine:** 1) check for HW completion (looking for your work, your steps, corrections: Writing down just problems and answers is not sufficient) 2) Go over selected HW problems. 3) Answer questions 4) Start new lesson
- Late HW / incomplete HW / insufficient work HW can be revised and still earn majority of the assignment credit.

# Highlights from our Class Syllabus

## (...continued)

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- Students will have one (1) opportunity **each nine weeks** to recover (1) **test**. Eligibility for a redo/retake is for students who receive a 79 or below on a specific test.
- Available for help before school Mon-Fridays on most days 7:30-8:10am & 3:30-4pm
- Will hold morning help sessions day of quiz/tests 7:15am (or the afternoon the day before test/quiz depending on schedule 3:45pm)
- Help Sessions will be recorded on Teams Help Sessions Channel (all students will be added to the channel)
- Will try to put the recorded help sessions links on my website.
- We will have 1 day this week to go to Media Hub during class to pick up Textbook for those who want one. (Keep at home for reference. No need to have in your locker or bring to textbook to class)



# Student Class Supply List

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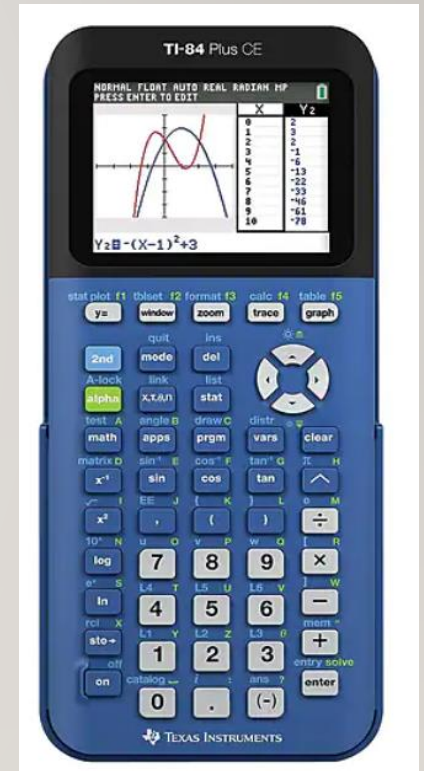
1) Graphing Calculator - TI 83 Plus , TI-84 Plus, or **TI – 84 Plus CE**

**\*Scientific calculator TI-36x Pro not allowed on AP exam.**

2) Loose-Leaf Paper, 3-Ring Binder, Class Folder, Printer Paper, Graph Paper

3) Pencil, Pen, Eraser, ruler, Highlighter, colored pens

4) Textbook - Calculus of a Single Variable, Larson 10<sup>th</sup> Edition, AP edition  
(we will provide each student with a textbook 1<sup>st</sup> week of school)



# CALCULUS BIG IDEAS

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- Fall Semester focus is Differential Calculus: **Derivatives** describes rate of change of one variable with respect to another. (In other words, rate of change is related to **Slope**)
- Spring Semester focus is Integral Calculus: **Definite integrals** describes the net change in one variable over an interval of another. (In other words, net change is related to **Area**)

# DAY 2 TOMORROW (TUES 8/10)

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- Pick up Guided Notes & HW Calendar handouts front of classroom
- Look for your **assigned seats** (seating chart projected on the board)
- Turn in your “Who am I” sheet

ANY QUESTION?



I'M LOOKING FORWARD  
TO SUPPORTING YOUR  
LEARNING THIS  
SCHOOL YEAR!!!

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