



# Back To School Night 2023

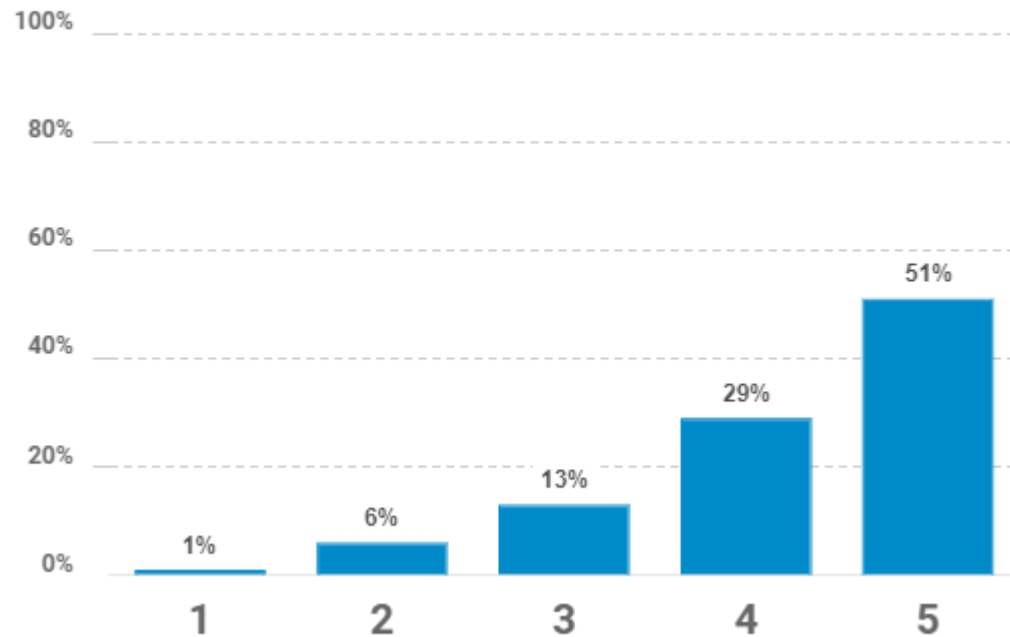
<https://forms.gle/Fio4kYqBqvK26mUJA>

# Objectives

- Pass the AP test and learn to convey ideas accurately and precisely.
- Last year mean (average) score of my AB kids was 4.25 with 51% of students earning a 5. 93.7% passed the test.
- If your student buys in and does the things that I ask and recommend, he/she should have little issue earning a 4 or 5. Everything is geared and formatted in a style of the AP test.
- Critical reading, critical writing, logic, and precise speech will be stressed, demonstrated, and taught.

# Squad Goals

 GROUP DISTRIBUTION



 SCORE DISTRIBUTIONS

SCORE	YOUR GROUP		CA	GLOBAL
1	1 Student	0.7%	20.9%	20.5%
2	8 Students	5.6%	19.3%	21.8%
3	19 Students	13.4%	17.4%	19.5%
4	41 Students	28.9%	15.8%	16.2%
5	73 Students	51.4%	26.5%	22.1%

# Contacting Me

- Almost everything can and should be handled by your student.
- It is always quicker to chat in class than email back and forth.
- I am trying to get the students to take charge of their learning. Have your student talk to me. I will email you this same information if you ask about grades, test scores, etc.
- If there is something that you want to tell me, please email. We can also meet in person if needed.

# Your Job is to Show What You Know

Math is a logical process. The work this year should be thought of like an essay. It should need no additional explanation.

2)  $\lim_{h \rightarrow 0} \frac{\sqrt{3+h} - \sqrt{3}}{h} \cdot \frac{(\sqrt{3+h} + \sqrt{3})}{(\sqrt{3+h} + \sqrt{3})}$   
( $\lim_{h \rightarrow 0} \frac{\sqrt{3+h} - \sqrt{3}}{h}$  is continuous)  
 $\lim_{h \rightarrow 0} \frac{(3+h) - (3)}{h(\sqrt{3+h} + \sqrt{3})}$   
 $\lim_{h \rightarrow 0} \frac{h}{h(\sqrt{3+h} + \sqrt{3})}$   
 $\lim_{h \rightarrow 0} \frac{1}{\sqrt{3+h} + \sqrt{3}}$   
( $\frac{1}{\sqrt{3+h} + \sqrt{3}}$  is continuous)  
 $\frac{1}{\sqrt{3+(0)} + \sqrt{3}}$   
 $\frac{1}{2\sqrt{3}}$

# Your Work is Your Answer

The result can be 'correct' but very wrong and earn no points.

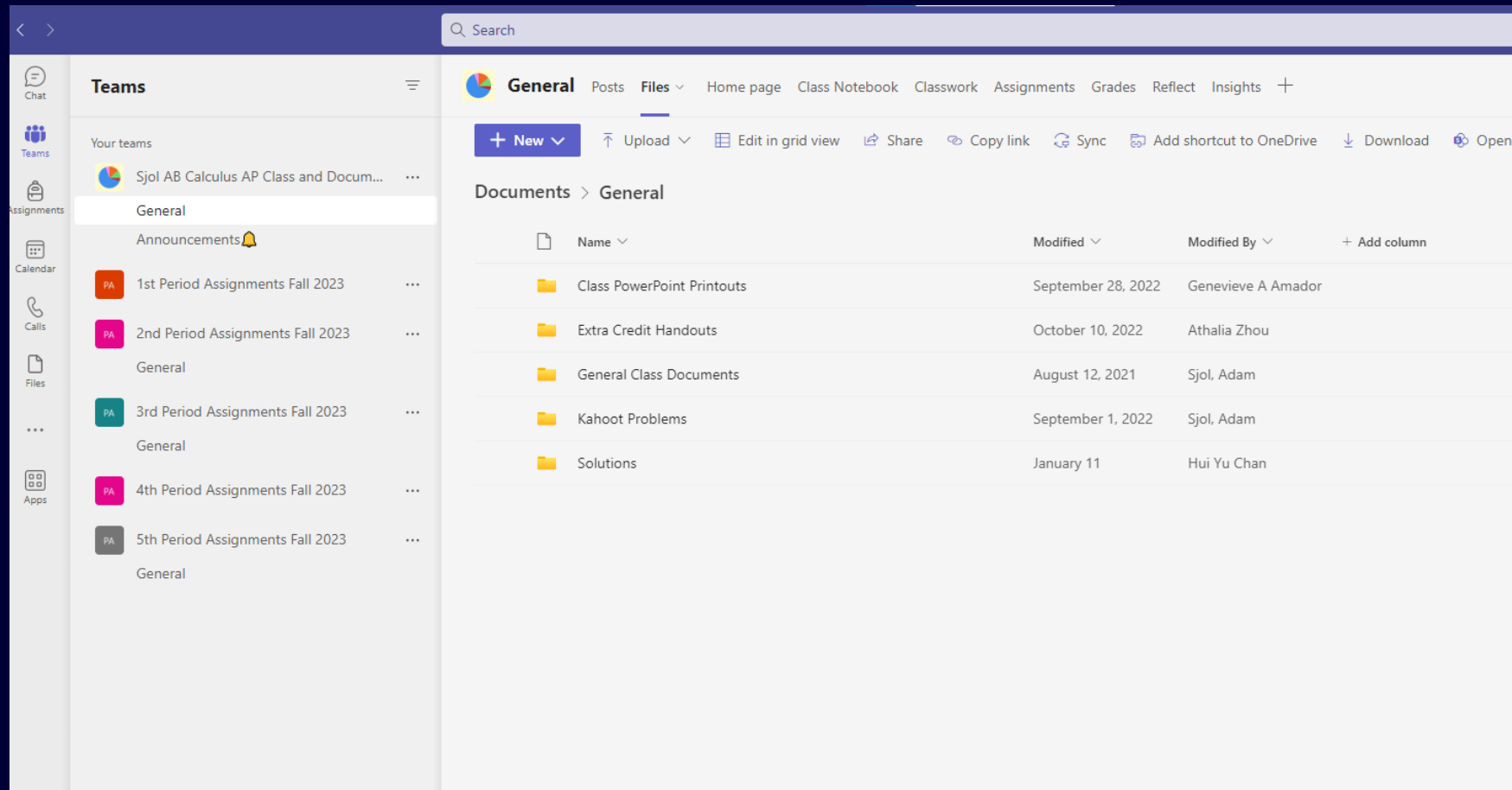
Evaluate

$$\lim_{x \rightarrow 0} \frac{\sin(5x)}{3x}$$
$$\frac{5}{3} \lim_{x \rightarrow 0} \frac{\sin(5x)}{5x}$$
$$\frac{5}{3} (1)$$

$$\lim_{x \rightarrow 0} \frac{\sin 5x}{3x}$$
$$\frac{5}{3} \lim_{x \rightarrow 0} \frac{\sin x}{x}$$
$$\frac{5}{3} (1)$$

# Teams

Microsoft Teams is used for homework, documents, solutions, and Lecture Printouts.



# DeltaMath

Delta Math will be used for homework and extra credit occasionally. This site gives immediate feedback and help as needed. It is best for only certain concepts and techniques.

DeltaMath PLUS

Student Data ▾


Create / Edit ▾

Tools ▾

Plus / Integral

< Back

< Prev 2 / 4 Next >




Lines from Two Points (Point Slope Form)

Aug 25, 9:49:34 AM

Solved in 7.9 Minutes

Unique ID: 0536



Write the equation of the line that passes through the points  $(7, -7)$  and  $(3, 8)$ . Put your answer in fully simplified *point-slope* form, unless it is a vertical or horizontal line.

Find Slope:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope formula

$$m = \frac{8 - (-7)}{3 - (7)}$$

Plug in

$$m = \frac{8 + 7}{3 - 7}$$

Negative of negative is a positive

$$m = \frac{15}{-4}$$

$$m = -\frac{15}{4}$$

# Website



**AYALA**  
HIGH SCHOOL

SEARCH AYALA



SELECT A SCHOOL >



ABOUT US >

ACADEMICS >

ATHLETICS/ACTIVITIES >

CLASSROOMS

PARENTS >

STAFF >

STUDENTS >

SJOL, ADAM

AB Calculus AB Home  
Documents

-

Back To School Night

AP Night

AB

AP CALCULUS – MR SJOL

2022-2023 LEARNING EXPECTATIONS



## AP CALCULUS

These classes are designed to prepare you to earn a 5 on the AP test. Everything we do is oriented to that goal. To be successful, you will need to do a lot more than be able to memorize formulas or algorithms. Expect a lot more speaking, writing, and editing your work than in previous math classes. We will be using Teams for posting documents and turning in work. If online learning rears its head, that will be held live in Microsoft Teams.

## GRADING

75% of the grade comes from tests and quizzes. Tests follow each unit and are worth 20 points. Quizzes are typically unannounced, occur about weekly, and are worth 10 points.

25% of the grade comes from homework and classwork. Homework scores are based on completion, not accuracy.

Grades will be kept in Aeries only.

It will take a day or two for assignment grades to show up online. If a recent grade is missing, wait a couple of days.

## INDEPENDENT WORK

- All of your work assigned online or in class (hopefully) will be hand written, in pencil. This is following what you are required to do on the AP test. Also, you will retain the information with significantly more accuracy and for longer when you write everything out.
- All instructions must be copied onto your paper, this includes long application problems (word problems). Students struggle in AP calculus figuring out what a problem is asking; my students don't struggle because we read and write every problem, giving time to process and form a plan of attack.
- You may and should work collaboratively with others in and outside of class, but you must do your own work.
- When submitting your documents, they must be in pdf format. Your work will be on multiple pages, but needs to be submitted in one document containing all of those pages.
- Homework is due by 8 a.m. on the day you are supposed to turn it in.

## CLASS MEETINGS

- You are expected to be present and active in all meetings.
- Unless we are working on calculus with technology, Computers will not be used. Smartphones (or dumb ones) will not be used in class.
- Calculus time is for Calculus.
- I will not waste (your) time, be ready to work and try so you do not waste the time of other students.
- You will make mistakes, lots of them. Be ready to learn from them and try not to let those mistakes bother you. If you aren't making mistakes, you are not learning.

## EXTRA CREDIT



I want you to have the opportunity to earn extra credit each day. This is also going to be an opportunity to tune up on skills that you may not have developed as well as previous students due to COVID at home learning. I also want students that want or need extra practice to have an extra incentive to do so.

This is an ongoing experiment and the rules might (will) change.

I am open to suggestions, but my goal is for your grade to reflect what you know and your abilities, not necessarily for you to have a higher grade. The extra credit is designed to help you review and strengthen your knowledge so that you can also score higher on tests and quizzes (compared to if you did not do the extra credit).

I reserve the right to cancel the extra credit offered, if this is deemed to be necessary, the gradebook will retain the extra credit you have already earned unless there are extreme circumstances.

## Rules

Regular extra credit is worth 5 points, half of one regular homework assignment (non-project). This will allow you to easily make up for late assignments.

Work is graded like the normal homework, but there is more of an emphasis on accuracy and correctness. More attempts will earn some points, but not all.

To be eligible for each night's extra credit, you must have all assignments completed. You need to complete any missing work first. This is still true if you are absent/excused anything. You can of course still complete any homework and extra credit if you are absent since everything is on Teams.

Late extra credit is not accepted. Even if you are absent.

The paperwork got overwhelming last year. If you do not submit a homework assignment on time, you will not be eligible for extra credit points (but you are welcome to use it for practice) for the rest of the week. I will grade and update any late or missing work over the weekend. If you missed anything in the previous week, you will again be eligible for extra credit starting that Monday.

Extra Credit will show up as a second homework assignment submission in TEAMS.

Edit Page

# Grades

My goal with grades is to predict success on the AP test.  
An **A** is a prediction that a student will earn a 5.

A **B** is a prediction that a student will earn a 4.

Date	Entries	Percents	Change			Change
A+	7	4.7	-0.7	Students with A	42.6	0.7
A	36	24.3	2.0	Students with B	40.5	-0.7
A-	20	13.5	-0.7	Students with C	14.9	0.7
B+	13	8.8	-2.7	Students with D/F	2.0	-0.7
B	29	19.6	0.0			
B-	18	12.2	2.0	Students with A or B	83.1	0.0
C+	8	5.4	-2.7			
C	11	7.4	2.7	Students Passing	98.0	0.7
C-	3	2.0	0.7			
D+	2	1.4	0.0			
D	0	0.0	-0.7			
D-	0	0.0	0.0			
F	1	0.7	0.0			

# Grades

Your grade is supposed to represent what you know.

If you want your grade higher, you need to know more, do more, or show what you know better.



# Grades

- Homework is worth 25% of the total grade.
- Assessment is worth 75% of the total grade.
- Late work is accepted and earns at most 50%.
- I update grades very regularly. Please do not contact me about the gradebook. Have your student ask, but only if it has been a couple of days.
- Grades will be kept in Aeries only.

Filters			
30 Minutes Choice	Unit 1 Summative Ass...	ec17 DeltaMath Expon...	
✓ 9/2/2021 #35 : 10	✓ 9/2/2021 #40 : 32/20	✓ 9/3/2021 #38 : 0	
10	30		
10	24		
10	33		
10	36	5	
10	23		
	14		
10	27	5	
10	27	5	
10	31		
10	25	5	
	24		

# Extra Credit

There are 3-4 extra credit assignments each week.

The rules are on Teams .

Extra Credit was suspended for part of last year due to complaints.



# Independent Work

- Homework is graded on completion and effort not accuracy.
- The goal of the work is to practice and investigate the ideas presented in class. It will not necessarily be repeating exactly the same type of problem as in class.
- Coming to class with confusion is pretty normal. These are very difficult concepts we are learning.

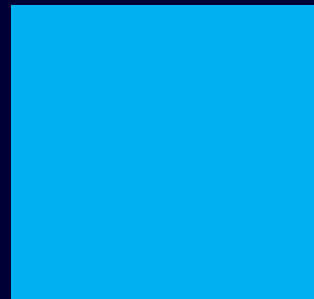
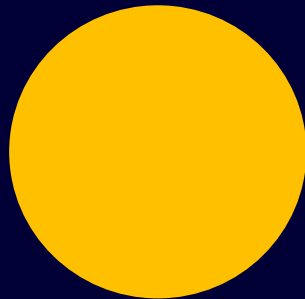
# Homework Help

- Student solutions manual for AB calculus
- Sjol Solutions for worksheets
- Answers on many problem sets
- PowerPoint pdf
- Sjol Videos on YouTube from at home learning time and baby time
- Asking questions in class
- Coming in before school and lunch for help

# Daily Class Time

The one who is talking is the one who is thinking. There is no participation requirement, but those that sit quietly and copy notes do not do as well as those that speak, question, have other look at their work, and are actively engaged in the class.

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# Daily Class Time

The more questions and feedback I get, the better I can tailor the class to your kids. No matter what, we will learn and practice everything.



Be prepared with what you do and don't understand. Let me know when we need more practice, more help, more explanation.