

Mathematics Online - Mr. Polce

It is my job to be **consistent**, and **effective**. It is a task taken seriously, and one in which I cannot fail. In doing this job, we will establish a class atmosphere that promotes **respect, self-motivation, self-discipline, and focus**.

Class Rules:

1. Sign Into Google Classroom
2. When You Speak, You're On Camera
3. Fair is Not Always What is Equal
4. Be Respectful

Immediate/Severe Clause - If there is a disturbance in the class, I reserve the right to take disciplinary action (example: argument, fight, etc.)

Class Procedure:

1. Entering The Classroom - Check into Google Classroom, follow the procedures, complete the Do Now.
2. YouTube - Comment for Credit! - We can learn a lot from videos, let's put mathematics into our own words!
3. STAR - **S**it up, **T**rack the lecture, **A**sk questions like a scholar, **R**espect others
4. "Think, Pair, Share" Breakout Room - Think quietly to yourself, then pair with a person(s) next to you, and share your ideas
5. "Do It Again" - Do the procedure again. Do the problem again, hand-write your notes, until you get it right.
6. Exiting the Classroom - Complete the Exit Question (Google Form), and reflect on what you learned

Class Grading:

Textbook Homework, Mathspace Assignments:	3 points each
Class Participation/YouTube Comments/Entrance/Exit Problems:	5 points each/per week
Quizzes (Google Forms):	30 points each
Tests (Google Forms):	50 points each

Extra Help - Available upon request. Use the "Polce Office Hours" sign up sheet linked below: <https://calendar.google.com/calendar/selfsched?sstoken=UUQwUzdLdFZQWdPpGRIZmF1bHR8ZGU4NmJhNjVkyZkRkODg2ZGU2NzYxMmQ5ZDRkNTkyYjg>

Discipline:

- Three missed homeworks results in a detention
- Tardy to class three times results in a detention
- Failure to follow rules and procedures will result in 1. Conference with the teacher 2. Central Detention 3. Removal from class 4. Parent Contact

Class Goals:

1. **Self-motivation**
2. **Focus**
3. **Earning v. Deserving**

"A great person is always willing to be humble."

"You cannot help people permanently by doing for them, what they could and should do for themselves."

Rewards: Positive Learning Atmosphere, Praise from the teacher, and the Power to achieve success.

COURSE DESCRIPTION:

Math Analysis is a full year course that provides opportunities to extend concepts mastered in Algebra 2. Topics include trigonometric functions, discrete math, data analysis, and contemporary mathematical applications. The curriculum also includes rational expressions, vectors, polar coordinates, polar equations, and complex numbers. Graphing calculators are used extensively to discover, apply, and reinforce certain concepts, in preparation for Calculus and college level mathematics.

COURSE OBJECTIVES:

Upon successful completion of the course, students will be able to:

1. Convert between degrees and radians
2. Find Arc length, sector area, angular & linear speed
3. Compute Trigonometric functions and their inverses
4. Solve applied problems using Trigonometric functions
5. Graph inverse trigonometric functions
6. Verify trigonometric identities
7. Use the sum and difference functions
8. Use the double and half-angle formulas
9. Use the law of Sines and law of Cosines
10. Analyze vectors geometrically and algebraically, and perform vector operations
11. Graph points and simple equations in polar coordinates
12. Explore formal notation and evaluation of limits

REQUIRED MATERIALS:

Textbook: Larson, Hostetler. *Precalculus, With Limits*

Ipad

Notebook/Notability App (see below)

Pen/Pencil

Google Classroom (see below)

Mathspace App (see below)

Instructions for students:

(1) Join Google Classroom - Block B: "2020 Polce (B) Math Analysis" Code: [cjnxfp](#)
Block E: "2020 Polce (E) Math Analysis" Code: [5hx62ky](#)
Block G: "2020 Polce (G) Math Analysis Honors" Code: [dko3gxo](#)
Site: www.classroom.google.com

(2) Download Lesson slides to "Notability" App, by visiting the school teacher website "Math Analysis Resources": <https://www.bhpsnj.org/Page/10307>

(3) Join Mathspace - Class Code for Math Analysis B: **8843RX**
Math Analysis E: **JTFPDV**
Math Analysis Honors G: **P8WVF9**
Site: www.mathspace.co

Assignments

1.1 pg. 9 #11-19odd, 37, 43, 76-80

1.2 pg. 22 #9-19odd, 25-31odd, 71

1.3 pg. 34 # 51-57odd, 65-71odd, 97, 99-100

1.4 pg. 48 #1-6, 31-37odd, 55-63odd

1.5 pg. 61 #15-23odd, 31-37odd, 67-75odd

1.6 pg. 71 #29-33odd, 37, 39, 43-49odd

1.7 pg. 79 #1-4, 9-12, 43-49odd

1.8 pg. 89 #1-15odd, 31-37odd, 43

1.9 pg. 99 #9-12, 17-23odd, 59-65odd

1.10 pg. 109 #8, 29, 31, 35, 45, 47

2.1 pg. 134 #1-8, 13-19odd, 25, 27, 43, 45

2.2 pg. 148 #1-9, 27-37odd, 67, 69

2.3 pg. 159 #19-27odd, 39, 41, 57

2.4 pg. 167 #5-33odd, 55

2.5 pg. 179 #7-15odd, 25, 27, 37

2.6 pg. 193 #5-11odd, 13-16, 27, 31, 35, 39

2.7 pg. 204 #9, 13, 17, 21, 27, 61, 67

3.1 pg. 226 #7-10, 45-51odd, 53, 55

3.2 pg. 236 #1-15odd, 20, 21, 31, 33, 39-44, 91-92

3.3 pg. 243 #9-17odd, 21, 23, 27, 31, 35, 61, 65, 87-93

3.4 pg. 253 #9-19odd, 25, 29, 33, 37, 118-122

3.5 pg. 264 #1-6, 15, 17, 21, 31, 38, 42

4.1 pg. 290 #7-23odd, 47-55odd, 59, 63, 67

4.2 pg. 299 # 9-13odd, 17, 23, 27, 37, 39

4.3 pg. 308 #5, 27-31odd, 33, 37, 41

4.4 pg. 318 #45-61odd, 89, 91

4.5 pg. 328 #1-9odd, 27, 31, 35, 39, 43, 47

4.6 pg. 339 #1-6, 7, 11, 15, 19, 41, 43, 57-60

4.7 pg. 349 #1, 5, 9, 13, 35-41odd, 49-57odd

4.8 pg. 359 #1, 11, 17, 19, 24, 28, 34, 37, 43

5.1 pg. 379 #1, 5, 9, 13, 15-26, 45, 49

5.2 pg. 387 #1, 5, 9, 13, 17, 21, 25, 29

5.3 pg. 396 #7, 11, 15, 23, 27, 31

5.4 pg. 404 #1, 5, 33, 35, 55, 77-80

5.5 pg. 415 #9, 13, 23, 25, 29, 35, 39

6.1 pg. 436 #1, 4, 35, 37, 43, 44

6.2 pg. 443 #1, 3, 23, 25, 31, 43
6.3 pg. 456 #3, 7, 11, 15, 19, 23, 53-59odd, 87-88
6.4 pg. 467 #1, 5, 9, 13, 17, 21
6.5 pg. 478 #5, 9, 13, 17, 21, 25, 31, 113-116
7.1 pg. 503 #7, 11, 15, 19, 23, 49
7.2 pg. 515 #35, 39, 43, 45, 49, 51
7.3 pg. 527 #13, 17, 21, 25, 39, 49, 51
7.4 pg. 539 #1-4, 15, 21, 27, 33, 39
7.5 pg. 548 #1, 5, 9, 13, 27-30, 78-80
7.6 pg. 558 #1, 5, 9, 13, 21, 39
8.1 pg. 582 #33, 35, 51, 59, 67
8.2 pg. 597 #5, 23, 27, 31, 51, 55
8.3 pg. 608 #3, 11, 13, 21, 39, 45
8.4 pg. 616 #5, 9, 13, 31, 37, 79-85odd
8.5 pg. 628 #1, 5, 9, 15, 19, 43, 47
9.1 pg. 649 #33-36, 37, 41, 45, 49, 103-107odd
9.2 pg. 659 #11, 15, 19, 23, 27, 39
9.3 pg. 669 #27, 31, 35, 39, 43-46
9.4 pg. 681 #5, 9, 13, 17, 21, 25, 29
9.5 pg. 688 #7, 11, 15, 19, 23, 35, 81-83
9.6 pg. 698 #9, 13, 17, 21, 25, 37, 41
9.7 pg. 709 #5, 9, 13, 7, 21, 25, 33, 37
10.1 pg. 732 #1, 5, 9, 13, 23, 27, 37
10.2 pg. 740 #5-10, 13, 17, 21, 41
10.3 pg. 750 #1-6, 9, 13, 17, 35, 39
10.4 pg. 760 #1-4, 7, 11, 15, 35, 39, 43-49odd
10.5 pg. 769 #7, 11, 15, 27-32, 41
10.6 pg. 776 #3, 7, 11, 15, 23, 27, 39
10.7 pg. 783 #9, 13, 17, 21, 25, 33
10.8 pg. 791 #1-11odd, 17, 21, 25, 29
10.9 pg. 797 #5-10, 11, 15, 19, 23
11.1 pg. 817 #17, 21, 25, 29, 33, 39
11.2 pg. 825 #3, 7, 11, 15, 19, 23, 27
11.3 pg. 832 #1, 5, 9, 17, 21, 25, 29
11.4 pg. 841 #7, 11, 15, 19, 23, 27, 31
12.1 pg. 860 #2, 5, 9, 13, 17-25odd
12.2 pg. 870 #5-15odd, 25, 43-49odd
12.3 pg. 880 #5-13odd, 25-37odd

12.4 pg. 889 #1-4, 5-21odd, 35, 39

12.5 pg. 898 #11, 15, 19, 23, 27, 36-38

Contract

Signing this contract exhibits acceptance of the terms set forth above by the teacher. After signing, return to the teacher:

I, _____, hereby agree to the terms, rules, grading, and procedures set forth by the teacher on this day, and to commit to the work required, and hereby understand that failure to accept the terms set above may result in disciplinary action, and even failure of the class. I further accept the terms that the teacher will work to his best ability, and commit to the work required in order to create the best possible classroom atmosphere of fairness and learning.

Signature _____

Date _____

Teacher Signature _____

Date _____