

Math Analysis Curriculum Paper

Ms. Williamson, Redlands High School

Course Description: Math Analysis combines many of the trigonometric, geometric, and algebraic techniques needed for the preparation of the study of Calculus, and strengthens conceptual understanding and mathematical reasoning ability. The curriculum focuses on types of functions, including polynomial, rational, exponential, logarithmic, and trigonometric, analytic geometry, polar coordinates and vectors, parametric equations, mathematical sequences and series, and a preview of Calculus, including limits.

Materials: The instructional activities in Math Analysis include note taking, class work, homework, and notebooks. Organization supports a student's success, and a notebook with dividers is suggested to help you stay organized. The recommended materials for this class include three-hole punched notebook paper, graph paper, pencils, an eraser, red pens, a 6- or 12-inch ruler, a graphing calculator, and a three-ring binder with a section for Math Analysis. Your textbook, Precalculus, should be brought to school each day, unless I am able to obtain a classroom set of textbooks that you may share with your fellow classmates.

Calculators: Students will need a graphing calculator. Students are encouraged to use a Texas Instruments graphing calculator, model TI-83 Plus. Students should permanently mark their personally owned calculator with their name in several places. If you are unable to purchase a calculator, the school has calculators that you may borrow. If you borrow a school calculator, voluntary donations of four AAA batteries would be welcome so that RHS can continue to lend calculators to students in high level math classes.

Homework, Chapter Notebooks, Participation, and Extra Credit: Homework will be assigned **daily**, including weekends. Completed assignments are due the next school day and will be checked at the beginning of class. Homework will be graded on effort and completion. Each homework assignment should include your name, date, assignment number, text section number and page number, and numbers of the problems assigned. To receive full credit, directions for each problem should be written down, and the problems and all steps needed to complete the problem should be shown. Late work only will be accepted the day after the due date, and it will receive, at most, half credit. If you are absent from class, but you are on campus for any class period or activity, you are expected to turn in the homework that is due that day or it will be considered late homework. If you are missing the class period, the homework due that day may be placed in my mailbox in the North Campus office or hand-delivered to me in my classroom. Students are required to print the notes for the week, posted on the RHS Blackboard website by Sunday evening. You may print them at home or using a school computer in the library, computer lab, or student center. Students may also come in and copy my notes. I will check, no later than Tuesday of each week, that you have your notes for the week. You are responsible for completing the notes by filling in blanks, adding graphs, etc. Chapter notebooks, including the cover sheet, curriculum paper, state standards, chapter divider, notes, homework, and any handouts, will be collected at the end of each chapter, graded, and then returned. The cover sheet, curriculum paper, state standards, and notebook will all be provided to you. The remaining chapter notebook items include your homework and materials you will create/collect in class during the chapter. Class participation will be a portion of the homework grade. The only extra credit given is for unused hall passes. The hall passes are worth a maximum of fifteen points, and your unused point total is added to your semester homework grade.

Tests, Quizzes, and Projects: Tests will be given at the end of each chapter. All tests are cumulative. A few quizzes may be given per chapter. Projects may be given throughout the course. Their credit will vary. A cumulative final will be given at the end of each semester.

Grading Policy: Grades for each semester are weighted on the following basis: homework, notebook, projects, and daily participation grades are worth twenty-five (25) percent; tests, quizzes, and the semester exam are worth seventy-five (75) percent. The total points from all categories are averaged and the grade is established using the following grading scale:

A = 92.0 – 100%	B+ = 88.0 – 89.99%	C+ = 78.0 – 79.99%	D+ = 68.0 – 69.99%	F = 0 – 59.99%
A– = 90.0 – 91.99%	B = 82.0 – 87.99%	C = 72.0 – 77.99%	D = 62.0 – 67.99%	
	B– = 80.0 – 81.99%	C– = 70.0 – 71.99%	D– = 60.0 – 61.99%	

Other Policies:

- Students are allowed three hall passes for the entire semester. Each unused pass is worth 5 extra credit points.
- Students with excused absences have as many days as they were absent plus one day to turn in homework and still receive full credit. Students with an excused absence have two days to make-up tests, unless there are extenuating circumstances, or a zero will be given. Students must make arrangements with the teacher for make-ups to be taken outside of class time.
- Students are to bring their textbook to class each day, unless instructed not to do so.
- All student work should be done in pencil, unless otherwise instructed. Homework corrections should be made in red ink/pencil.
- Students caught cheating, copying homework, quizzes, or tests for example, will receive a zero on the assignment. Further disciplinary measures also will be taken as per school policy.
- Any cell phone, ear buds, or electronic device, other than a calculator, should be put away during class time or it will be confiscated and returned at the end of the day. Detention also will be given for its use in class.

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Classroom Rules:

- Be in your seat, ready to work when the bell rings.
- Bring your textbook and recommended materials to class.
- Pay attention and follow directions.
- Swearing, teasing, yelling, put downs, or name-calling will not be tolerated.
- Food, drinks, and gum are not allowed in the classroom.
- Cell phones, electronic devices, and ear buds are not allowed in the classroom.

Breaking classroom rules or disrupting the learning process will result in verbal warnings, removal from the classroom, parent/guardian contact, referral to a vice-principal or counselor, or class suspension.

Any student needing extra help should make an appointment to see me. Students may make arrangements to see me during lunch or before or after school.

Dear Parents/Guardians,

Please read through the above curriculum paper for the Math Analysis class in which your student is enrolled. I would appreciate your signatures on the attached sheet, indicating that you and your student have read the curriculum paper. Students should keep the curriculum paper in their Math Analysis notebook. Please have your student return the attached sheet to class as soon as possible. If you have any questions, please contact me at 307-5500, extension 31403, or via e-mail at valerie_williamson@redlands.k12.ca.us.

Thank you,

V. Williamson

