

Algebra 2 Syllabus

Instructor

Teresa Weber

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Email

For questions

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Homework submission

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Class/Office Location

Zoom meeting

ID 7575376348

Class Times

Mondays 10:00–12:00 am

Office Hours

Fridays by appointment

Course Overview

This class will consist of a two-hour live zoom class once a week and 3 – 4 homework assignments to be completed over the course of the week. Students will be expected to take notes and work examples during class. This is a live class, and everyone will be able to ask questions during it. I will periodically call on students to answer questions. Parents, if your student is not comfortable with me calling on them please let me know in advance so I do not call on them. All assignments will be due the day before the next class. Please turn them in on time. Math builds on itself so if you get behind it will be more difficult for you to catch up and understand the content.

Text

All Things Algebra by Gina Wilson

The week before needed I will e-mail out each unit of notes and assignments.

Students need to print, 3-hole punch, and put them in a binder with dividers for each unit.

Course Materials

- Binder with dividers
- Printer to print student pages
- Pencil
- Ruler
- Graph paper
- 4 different colors of highlighters
- Graphing Calculator

Course Schedule

Week of	Subject	assignments
Aug. 30	Unit 1 Real numbers, properties, solving equations	HW 1, 2, 3
Sept 13	Angle relationships and angle constructions	HW 4, 5, 6, test EC – quiz 1-1, quiz 1-2
Sept 20	Unit 2 Relations and Linear functions	HW 1, 2, 3 EC – quiz 2-1
Sept 27	Solving systems of equations	HW 4, 5, 6 EC – quiz 2-2
Oct 4	Solving systems of equations Unit 3 functions	HW 7, test HW 1, 2
Oct 11	Unit 3 Quadratic functions	HW 3, 4, 5 EC – quiz 3-1
Oct 18	Quadratic functions and inequalities	HW 6, 7, test EC – quiz 3-2
Oct 25	Unit 4 Solving quadratics	HW 1, 2, 3 EC – quiz 4-1
Nov 1	Imaginary and complex numbers	HW 4, 5, 6 EC – quiz 4-2
Nov 8	Solving quadratics, discriminate	HW 7, 8, 9 EC – quiz 4-3
Nov 15	Projectile motion, quadratic regression Unit 5 Solving quadratics	HW 10, test U 5 HW 1, 2
Nov 29	roots and zeros of polynomial function, Factoring polynomials	HW 3, 4, 5 EC – quiz 5-1; quiz 5-2
Dec 6	Unit 5 dividing polynomials, Function operations	HW 6, 7, test EC – quiz 5-3

Week of	Subject	assignments
Dec 13	Unit 6 Roots, simplifying radicals, add, subt, mult, and divide radicals	HW 1, 2, 3
Jan 3	Rational exponents	HW 4, 5, 6 EC – quiz 6-1
Jan 10	Graphing radical functions, inverse relations and functions	7, 8, SG, test EC – quiz 6-2
Jan 17	Unit 7 Graphing exponential functions, logarithms	HW 1, 2, 3 EC – quiz 7-1
Jan 24	logarithms	HW 4, 5, 6 EC – quiz 7-2
Jan 31	Logarithm equations, natural logs	HW 7, 8, 9 EC – quiz 7-3
Feb 7	Exponential functions	HW 10, 11, test
Feb 14	Unit 8 Rational expressions	HW 1, 2, 3 EC – quiz 8-1
Feb 24	Graphing reciprocal functions	HW 4, 5, 6 EC – quiz 8-2
Feb 28	Graphing reciprocal functions, solving rational equations	HW 7, 8, 9 EC – quiz 8-3
March 7	Direct, inverse, joint, and combined variation Unit 9 Conic, ellipses	HW 10, test U 9 HW 1, 2
March 14	Ellipses, Hyperbolas	HW 3, 4, 5 EC – quiz 9-1
March 21	Parabolas, conic sections	HW 6, 7, 8 EC – quiz 9-2
March 28	non-linear systems	HW 9, 10, test EC – quiz 9-3

Week of	Subject	assignments
April 4	Unit 10 Arithmetic and geometric sequences	HW 1, 2, 3 EC – quiz 10-1
April 11	Arithmetic vs geometric	HW 4, 5, test
April 25	Unit 11 Permutation, theoretical probability, conditional probability	HW 1, 2, 3
May 2	Binomial theorem/probability, z-scores	HW 4, 5, 6, test EC – quiz 11-1, 11-2
May 9	Unit 12 Pythagorean theorem, angles and triangles	HW 1, 2, 3
May 16	Unit circle, sines and cosines	HW 4, 5, 6
May 23	Graphing trig functions	HW 7, 8, 9
June 6	Trig identities	HW 10, 11, 12
June 13	Solving trig equations	HW 13, 14, test

**Schedule is subject to change depending on how the students are doing in the class

Homework Submission

Take a photo or scan in your assignments then save to a PDF and name it with your last name, first name, and assignment for example: **Weber Teresa U1 HW 2**. Please e-mail your homework to 1roomhomework@gmail.com. In the subject line put your class. Example: Geometry.

Late Assignments

Assignments turned in after the due date will automatically have 10 points deducted unless arrangements have been made prior to the due date.

Calculator

A graphing calculator is needed. You could use ti-84 plus or <https://www.desmos.com/calculator> an online graphing calculator.

Grading

All assignment and tests will be returned via e-mail as soon as they are graded. Homework is worth 1/3 and tests 2/3 of your final grade. I will send out grades after each quarter throughout the year.

Tutoring

Need extra help? I will hold office hours for that purpose on Fridays. Please e-mail me no later than Thursday to schedule some time. If several are needing extra help, I will try to group you with other members from your class. If one has a question usually others will have the same question. If you just have a question and don't want or need to meet with me, please e-mail me.

Extra credit

The pages labeled as quizzes will be extra credit. Any extra credit needs to be turned in before the unit test. This will give you more practice and help raise your grade if you are struggling.