

Precalculus Summer Assignments 2018

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Dear parents and students,

Precalculus is a course designed to prepare you for Calculus. This course extends previously learned material to a deeper level and develops many new concepts. Calculus is a powerful tool that analyzes motion and addresses the infinite. However, before taking a Calculus course, it's important to have a strong foundation in many areas. We will work hard to lay that foundation this year. The study of mathematics is important for all students because it helps with practical application, mental discipline and conformity to Christ. I am excited to help guide you through this challenging yet rewarding and beneficial mathematics course.

Please take some time to look over the Precalculus textbook this summer. We are going to wait and complete Chapter 1 together once school starts, so you will jump ahead to Chapter 2 on Polynomials over the summer. This is all review from your former math classes, so it should not be too difficult (but you might have forgotten more than you think). You will complete all 7 sections as well as the chapter 2 review. If you complete the summer work and turn in the assignment log during the first week of school, you will receive a 100 as a test grade. This may be a difficult math class, but I am confident that we will all enjoy learning and growing together this year. Hard work definitely pays off in the end! ☺

Please do not hesitate to call, text, or email me if you have any questions. If I don't hear from you I will assume all is well and no guidance is needed.

Blessings,

Mrs. Williams

Summer Assignment Log (Complete and turn in on first day of school)

Section Number	Description	Problems Assigned	Graded By:	Record grade here and turn in
2-1	Relations	Pgs.48-50 #4-8, & 12-28 even	Parent (12 questions)	HW:
2-2	Linear Functions	Pgs.55-57 #2-30 even	Parent (15 questions)	HW:
2-3	Quadratic Functions	Pgs.63-64 #2-30 even	Parent (15 questions)	HW:
2-4	Polynomial Functions	Pgs.70-71 #2-26 even	Parent (13 questions)	HW:
2-5	Factoring Higher-Degree Polynomials	Pg. 76-77 #2-26 even	Parent (13 questions)	HW:
2-6	Zeros of Polynomial Functions	Pgs.84-85 #2-28 even	Parent (14 questions)	HW:
2-7	Graphing Polynomial Functions	Pgs. 96-98 #2-30 even	Parent (15 questions)	HW:
Chapter 2 Review	Review of Chapter 2 Concepts	Pgs.102-103 #2-30 even	Parent (30 questions)	HW:

What to turn in on the first day of school

I will collect the assignment log on the previous page turned in with the grades for the rest of the assignments entered by the parent. The students will need to bring all the homework assignments to class as I will check notebooks for completed work. Everything should be labeled and in an orderly fashion. All students who complete summer work will receive an extra test grade of 100 for the first semester.

Instructions for Homework Lessons

Read each lesson carefully and work through ALL the examples for the best understanding.

Homework Problems: Math is learned at the end of a pencil! It is important to work out each problem neatly and completely. Especially in math, it is important that students get in the habit of showing the thought process on paper. I know this can be difficult, but it makes for much quicker homework and test grading. Furthermore, it allows for partial credit and much faster corrections.

Pacing: Each homework lesson should take approximately 1-2 hours for the average student to complete. This includes reading through and practicing the lesson examples, completing the homework problems, and correcting missed problems. Quizzes should take approximately 15 minutes and at most 30 minutes. The test will take about an hour or two to complete. **Allow for 2-3 weeks at 5 hours per week for a safe estimate of time needed to complete all assignments.** Of course, you may choose to accelerate this pace as you see fit. For those of you who like a schedule set for you I recommend the following:

Week 1: Chapter 2 Lessons 1-3

Week 2: Chapter 2 Lessons 4-5

Week 3: Chapter 2 Lessons 6-7, Ch 2 Review

Grading

Grading Homework Lessons: I find it helpful to grade homework with a red pen (or any other color) to help the student see his/her mistakes clearly.

Step 1: Parents grade assignments according to the rubric below.

Step 2: Students are to correct all missed problems (textbooks are allowed for this) and show ALL work on corrected problems to receive credit.

Step 3: Parents should follow the rubric to give credit for corrections and for final homework grade. ****Important:** Be sure to include all corrections with your assignments when you turn in homework. This does not need to be turned in to me with the summer work sheet, however it should remain in the student binder.

Materials Needed for Course:

- BJU Precalculus Home Kit (Student Textbook, Teacher's Edition, Test Packet)
***** Note: Please do not purchase the test answer guide packet as to ensure the best testing conditions for the students. *****
- 2" binder and 3 tabs for organizing assignments in binder (HW, Quizzes, & Tests)
- Graph paper and regular lined paper (loose leaf preferred)
- TI 83/84 graphing calculator (TI-84 Plus CE for math/science majors in college)

Please use the following grading system when grading HW. Round final grade in student's favor.

# problems	Pts off/problem missed	Pts back when corrected
<12	10	5.0
12- 14	8	4.0
15-17	6	3.0
18-22	5	2.5
23-27	4	2.0
28-33	3	1.5
38-42	2.5	1.3
50 +	2	1.0