

Pre-Calculus Summer Assignment 2020

Your PreCalculus summer assignment will be completed using the website DeltaMath.

Create your own account for DeltaMath.com, clicking "Create Account" then typing in my teacher code: **182564**. You will make a username (email) and password, type your first and last name and select the class PreCalculus 2020-20201 from the dropdown menu. You'll see the assignment titled PreCalculus Summer Assignment 2020.

You may already have an account. If so, then sign into your old account, go to TOOLS then go to MANAGE LOGIN AND TEACHERS. Then they can add my teacher code **182564** and select the class PreCalculus 2020-20201.

If you forgot your password, you can reset it. Try to login in with your email and a random password. After one failed login, a "forgot password" link appears. If you don't get an email, you should check your junk box for the reset link.

If you have any trouble accessing your assignment, email me at djakobsen@nwr7.org. Don't wait until the night before the first day of school to start the assignment because 1. That will not be enough time and 2. I won't be able to help you if you have trouble.

Your summer assignment is a review of the main concepts from Algebra 2. This assignment is due on the first day of school and will count as a 25 point homework grade. It will be graded on both completeness and accuracy. In DeltaMath, each topic will list the number of problems you must get correct. You can use sample problems and watch videos in Delta Math for help. Have your pencil, paper, and calculator handy as you do this assignment. Some of the topics do not require written work and some do. For the topics that do require written work, first write the name of the topic and then number your work for each problem. If you get stuck and need help, click show solution and take notes on how to do the problem. You can also watch a video and/or look at a sample problem for additional help. If the topic requires 2 correct problems, continue work until you get 2 correct. I will be able to see how many problems you try and whether you get each one right or wrong. Include the written work for the 2 required problems along with any notes you took to help you figure out the topic.

On the first day of school, I will collect your written work. I will use this along with your results in DeltaMath to grade your assignment. I hope that we start school in person in the fall. If we are still online as we start school in the fall, you will upload your written work to Google Classroom.

Here is a list of all of the topics for your summer assignment and which ones require written work →

Khan Academy is also a source you can use for extra help. You will have a test on this material the fourth day of school. Three school days are not enough time to re-learn all of that material. It is your responsibility to come to school the first day with only the questions you could not work out on your own.

written work needed?	Select Form to Find Quadratic Feature
Writing Equations of Lines	Polynomial Vocabulary
Determine if Set of Points is a Function	Determine Features of Polynomial Graph
Determine if a Graph is a Function	End Behavior Graphically
Function Notation with Points on a Graph	End Behavior Algebraically
Visual Domain and Range	Write Polynomial Function From Graph yes
Domain and Range by Equation (Level 1)	Sketching Graphs from Factored Function yes
Domain of Pos / Neg / Incr / Descr	Solving Quadratics by Factoring
Identify Relative Extrema Graphically	Mixed Multistep Factoring
Identify Function Type Given Graph	Mixed Multistep Factoring (Equation)
Transformations of Functions	Polynomial Long Division (Level 1) yes
Composition of Functions yes	Synthetic Division (Level 1) yes
Composition of Functions (with x) yes	Synthetic Division to Find Zeros (Lev 1) yes
Inverse of Various Functions (M.C.) yes	Add/Subtract Complex Numbers
Identifying Inverses Graphically	Multiply Complex Numbers yes
Linear Regressions	Complex Roots (Level 1) yes
	Determine Number of X-Intercepts

Also, set up your binder for the first day of school.

Pre-Calculus Binder Requirement:

It is required that you get a large binder (at least 2 inches thick) with three sections with dividers. Fill up your binder with lined paper and graph paper.

Section 1 – Openers

Section 2 – Notes and homework

Section 3 – Vocabulary and formulas

Section 4 – Tests and Quizzes

In addition, you will need a zippered pouch with three holes that will hold your materials in your binder. Include the following tools:

1. At least 6 pencils
2. TI-84 calculator
3. Protractor
4. Ruler (cm and inches, could be small)
5. Colored Pencils

I look forward to working with you next year!

Mrs. Jakobsen

djakobsen@nwr7.org