

# Pre-Calculus Summer Assignment 2021

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 2021-2022 from the dropdown menu. You'll see the assignment titled PreCalculus Summer Assignment 2021.

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 2021-2022.

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](mailto: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 (August 30<sup>th</sup>) 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.

Do ALL of the topics listed in the assignment. This is a list of the topics for your summer assignment that also require written work →

Khan Academy is another 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 <b>yes</b>
Domain and Range by Equation (Level 1)	Sketching Graphs from Factored Function <b>yes</b>
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) <b>yes</b>
Composition of Functions <b>yes</b>	Synthetic Division (Level 1) <b>yes</b>
Composition of Functions (with x) <b>yes</b>	Synthetic Division to Find Zeros (Lev 1) <b>yes</b>
Inverse of Various Functions (M.C.) <b>yes</b>	Add/Subtract Complex Numbers
Identifying Inverses Graphically	Multiply Complex Numbers <b>yes</b>
Linear Regressions	Complex Roots (Level 1) <b>yes</b>
	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

To be ready for next year, join my Google Classroom page. Check your schedule to see which period to join.

Period 2: Use the class code wnxsss5

Period 8: Use the class code yh5vlqf

I look forward to working with you next year!

Mrs. Jakobsen

[djakobsen@nwr7.org](mailto:djakobsen@nwr7.org)