

HONORS PRE-CALCULUS SUMMER WORK 2025 – The purpose of this summer assignment is to keep your skills from Algebra 2 sharp and ready to use in your Honors Pre-Calculus class. This is intended to be a slow and steady assignment: do one skill per day on week days of summer (should take 10-20 mins per skill) and you should be done with your summer math assignment well before its due. :D

First add yourself to the Pre-Calculus Summer work google classroom (class code: ef5ha6of)

Note: A TI-84plus graphing calculator is **REQUIRED** for this class. If you do not already have one, it's imperative that you have one to be successful. There will be a quiz on this summer assignment during the first week of school. Get a single subject notebook or composition notebook. Print this page and tape it into the first page. As you work through the IXL skills, title a new page in the notebook for that next skill and show all thinking/work necessary to complete the problems in each skill.

- Log into IXL (if you don't know your log in, you should have received an email with your log in information... if you can't log in or have other questions, please email pamelas@villagechristian.org BEFORE June 29)
- Under the **learning** tab, type in the **shortcut code** next to the listed skill into the search bar, get each assigned skill up to a smart score of at least **70** or get **7** problems correct if you have already previously completed a skill assigned by a previous teacher. If you get one wrong, but be sure to go over the detailed help before you move on (utilize the features of *Learn with an example* OR *Watch a video* linked at the top of each skill)

READ ALL OF THIS DESCRIPTION FULLY.

IXL Level: Algebra 2 (check each skill completed: listed is the skill name and **SHORTCUT code in BOLD**. Each of these skills is an assignment in google classroom: once you have completed the skills and shown all thinking/work on a clearly labeled page in your math notebook, scan your work into the google classroom assignment and submit by the due date over summer. **YOU WILL ALSO TURN IN THE WHOLE NOTEBOOK ON THE FIRST DAY OF SCHOOL** as well as have a quiz on this assignment during the first week of school.

- N.5: Graph a quadratic function (**S9G**)
- O.5: Solve a quadratic by completing the square (**NPH**)
- O.6: Solve a quadratic by using the quadratic formula (**YQH**)
- K.4: Multiply complex Numbers (**VZ8**)
- K.5: Divide complex numbers (**MBM**)
- R.5: Simplify radical expressions with variables II (**QGZ**)
- T.7: Simplify expressions involving rational Exponents II (**U96**)
- O.3: Solve a quadratic equation by factoring (**CJC**)
- L.3: Multiply polynomials (**8GN**)

- L.5: Divide polynomials using synthetic division (D6D)
- R.8: Simplify radical expressions involving fractions (CCU)
- S.3: Solve radical equations (EHE)
- X.5: Multiply & Divide Rational Functions (MG2)
- U.4: Composition of linear functions: find a value (MFV)
- U.5: Composition of linear functions: find an equation (RSP)
- V.1: Identify inverse functions (9KT)
- BB.1: Domain and range of exponential & logarithmic functions (GLL)
- AA.1: Convert between exponential and logarithmic form (TPA)
- AA.4: Evaluate logarithms (GBR)
- AA.6: Change of base formula (J2R)

Student Name: _____

DUE DATE: all skills By the first day of school, Tuesday, August 19, 2025