

HONORS PRE-CALCULUS SUMMER WORK – 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

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.

- 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 60 or get 6 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.

IXL Level: Algebra 2 (check each skill completed: listed is the skill name and **SHORTCUT code in BOLD**.)

- K.5: Graph a quadratic function (**S9G**)
- K.10 Solve a quadratic by completing the square (**NPH**)
- K.11: Solve a quadratic by using the quadratic formula (**YQH**)
- I.4: Multiply complex Numbers (**VZ8**)
- I.5: Divide complex numbers (**MBM**)
- M.5: simplify radical expressions with variables II (**QGZ**)
- N.6: simplify expressions involving rational Exponents II (**U96**)
- J.6: Factor sums and differences of cubes (**NJV**)
- L.3: Multiply polynomials (**8GN**)
- L.5: Divide polynomials using synthetic division (**D6D**)
- M.8: Simplify radical expressions involving fractions (**CCU**)
- M.13: Solve radical equations (**EHE**)
- O.5: Multiply & Divide Rational Functions (**MG2**)
- P.4: Composition of linear functions: find a value (**MFV**)
- P.5: Composition of linear functions: find an equation (**RSP**)
- P.8: Identify inverse functions (**9KT**)
- T.1: Domain and range of exponential & logarithmic functions (**GLL**)
- S.1: Convert between exponential and logarithmic form (**TPA**)
- S.4: Evaluate logarithms (**GBR**)
- S.6: Change of base formula (**J2R**)

DUE DATE: By the first day of school, Tuesday, August 15, 2023