

# Honors PreCalculus Summer Review

**TO:** All 2018-2019 Honors PreCalculus Students

**FROM:** Honors PreCalculus Teachers

We are pleased that you have chosen to continue your math sequence by enrolling in Honors Pre-Calculus for next year. To help ensure your success in Honors Pre-Calculus next year, we have created Khan Academy summer review work. This review contains material that you must have knowledge of on the 1<sup>st</sup> day of the course. The review has problems from Integrated 1, Integrated 2, and Integrated 3.

**YOU MUST SIGN UP AT KHAN ACADEMY ([www.khanacademy.org](http://www.khanacademy.org))**

The packet has been divided into the following categories:

Linear Equations	Quadratics	Rational Expressions
Solving Linear Equations	Domain & Range	Right Triangle Trigonometry
Linear Systems	Operations with Exponents	Trigonometric Functions

Helpful hints to completing the summer work over the summer:

- Log into Khan Academy when completing the problems -- if you don't log in you won't get credit for your work.
- Do a little of the summer work each day – you are not expected to complete it all in one day
- Make sure to use scratch paper for multi-step problems and the TI-Nspire calculator
- Pace yourself, plan to do a portion each week.
- Other resources you may want to use:
  - your Integrated 1, Integrated 2, and Integrated 3 notes.
  - purplemath.com
  - mathforum.org
  - Wolframalpha.com
  - mathguide.com

*Honors Pre-Calculus Supplies Needed:*

- Pencils/Erasers
- Binder/Notebook
- Paper
- Graphing Calculator–It is recommended that you have a graphing calculator every day in class and at home. If you don't already have a TI-83, TI-84, or TI-Nspire and are going to purchase a graphing calculator, we recommend the TI-Nspire CX which will be used extensively in class.

# Honors Pre-Calculus Summer Review

These problems are a review of information you learned in Integrated Math 1, Integrated Math 2, and Integrated Math 3. You need to know this information to be successful in Pre-Calculus. Therefore, this packet is due on August 10, 2018 **BEFORE THE FIRST DAY IN PRE-CALCULUS**.

Your work must be completed on August 10, 2018 **BEFORE THE FIRST DAY IN PRE-CALCULUS**. Failure to complete these quizzes and problems on August 10, 2018 **BEFORE THE FIRST DAY IN PRE-CALCULUS** may jeopardize your ability to remain in the course.

## LINEAR EQUATIONS

- ❖ <https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/quiz/writing-slope-intercept-equations-quiz>
- ❖ <https://www.khanacademy.org/math/algebra/two-var-linear-equations/modal/quiz/forms-of-two-var-linear-equations-quiz>

## SOLVING LINEAR EQUATIONS

- ❖ [https://www.khanacademy.org/math/algebra/one-variable-linear-equations/modal/e/linear\\_equations\\_3](https://www.khanacademy.org/math/algebra/one-variable-linear-equations/modal/e/linear_equations_3)
- ❖ [https://www.khanacademy.org/math/algebra/one-variable-linear-equations/modal/e/multistep\\_equations\\_with\\_distribution](https://www.khanacademy.org/math/algebra/one-variable-linear-equations/modal/e/multistep_equations_with_distribution)

## LINEAR SYSTEMS

- ❖ <https://www.khanacademy.org/math/algebra/systems-of-linear-equations/modal/quiz/systems-of-linear-equations-word-problems-quiz>

## QUADRATICS

- ❖ [https://www.khanacademy.org/math/algebra/quadratics/modal/e/solving\\_quadratics\\_by\\_factoring\\_2](https://www.khanacademy.org/math/algebra/quadratics/modal/e/solving_quadratics_by_factoring_2)

## DOMAIN & RANGE

- ❖ <https://www.khanacademy.org/math/algebra/algebra-functions/modal/e/domain-of-algebraic-functions>
- ❖ [https://www.khanacademy.org/math/algebra/algebra-functions/modal/e/domain\\_and\\_range\\_0.5](https://www.khanacademy.org/math/algebra/algebra-functions/modal/e/domain_and_range_0.5)

## OPERATIONS WITH EXPONENTS

- ❖ <https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/quiz/rational-exponents-and-the-properties-of-exponents-quiz>
- ❖ [https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/e/multiplying\\_radicals](https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals/modal/e/multiplying_radicals)

## RATIONAL EXPRESSIONS

- ❖ [https://www.khanacademy.org/math/algebra2/rational-expressions-equations-and-functions/modal/e/simplifying\\_rational\\_expressions\\_1](https://www.khanacademy.org/math/algebra2/rational-expressions-equations-and-functions/modal/e/simplifying_rational_expressions_1)
- ❖ [https://www.khanacademy.org/math/algebra2/rational-expressions-equations-and-functions/modal/e/adding\\_and\\_subtracting\\_rational\\_expressions\\_2](https://www.khanacademy.org/math/algebra2/rational-expressions-equations-and-functions/modal/e/adding_and_subtracting_rational_expressions_2)

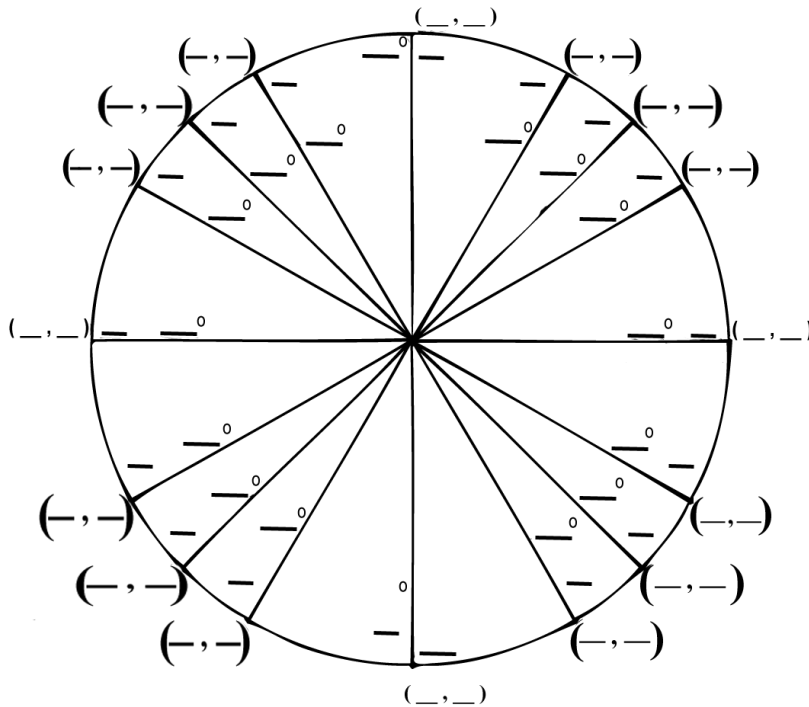
## RIGHT TRIANGLE TRIGONOMETRY

- ❖ <https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/modal/test/trigonometry-right-triangles-unit-test>

## TRIGONOMETRIC FUNCTIONS

(For fun: <http://www.mathwarehouse.com/unit-circle/unit-circle-game.php>)

- ❖ <https://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/modal/test/unit-circle-trig-func-unit-test>
- ❖ Without any aids, fill in the Unit Circle.



- ❖ Watch this video: <https://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/modal/v/unit-circle-definition-of-trig-functions-1>

### Pre-Calculus Summer Review Rubric

	5	4	3	2	1	0
<b>Summer Review</b>	Completed all topics on-time with 100% success on topics	Completed all topics on-time with 90-99% success on topics	Completed all topics on-time with 80-89% success on topics	Completed all topics on-time with 70-79% success on topics	Completed all topics on-time with 60-69% success on topics	Not completed on-time OR missing topics OR less than 60% success on topics