



# Pre-Calculus Honors Summer Assignment 2021

Each incoming Pre-Calculus Honors student is expected to spend at least **1 hour per week** working on the following topics on our IXL site: <https://www.ixl.com/signin/monmouthhs>. I suggest tackling 2 skills per week (30 minutes each).

**\*\* STUDENTS MUST LOG IN TO IXL TO COMPLETE THIS ASSIGNMENT\*\***

If you need your log in information, contact Dr. Wardell at [twardell@monmouthregional.net](mailto:twardell@monmouthregional.net)

These topics are found under the **Pre-Calculus Tab**.

## Functions

- A.1 Domain and Range
- A.2 Identify Functions
- A.3 Evaluate Functions
- A.11 Add, Subtract, Multiply, and Divide Functions
- A.12 Composition of Functions
- A.13 Identify Inverse Functions

## Quadratic Functions

- C.6 Solve a quadratic equation by factoring

## Polynomials

- D.1 Divide Polynomials Using Long Division
- D.2 Divide Polynomials Using Synthetic Division

## Exponential/ Logarithmic Equations

- F.4 Evaluate Logarithms
- F.6 Product Property of Logarithms
- F.7 Quotient Property of Logarithms
- F.8 Power Property of Logarithms
- F.11 Solve Logarithmic Equations
- F.12 Solve Logarithmic Equations with Multiple Logarithms

## Trigonometry

- M.5 Find Trigonometric Ratios using Right Triangles
- M.7 Find Trigonometric Ratios using Reference Angles
- M.12 Solve a right Triangle

## Complex Numbers

- R.2 Complex Conjugates
- R.4 Add, Subtract, Multiply, and Divide Complex Numbers

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Students do not need to achieve a given score for each topic, but rather concentrate on maintaining their skills during the summer. This assignment will be worth one test grade. The score will be based on how much time was spent practicing and the number of skills practiced. An **assessment** of these topics will be administered on one of the **first days of school** in September.

	F	D	C	B	A
Number of skills	10 or less	10-12	13-16	17-19	20
Hours Spent	$x < 5$	$5 \leq x < 6$	$6 \leq x < 7$	$7 \leq x < 8$	$8 \leq x \leq 10$

**\*\* THIS MUST BE COMPLETED BY THE FIRST DAY OF SCHOOL. NO CREDIT WILL BE GIVEN FOR LATE SUBMISSIONS \*\***