Joining the Khan Academy Class:

- Use class code **NWA5Q8WJ** and your email to join the class at [www.khanacademy.org/join](http://www.khanacademy.org/join).
  - **DO NOT** use your acemacon email address
  - **If you already have an account, add a class by going to the coaches tab on your dashboard.**
  - Your khan username should be your first and last name.
- Then, you must go to [https://forms.gle/MnpmGED4ggYz3GFd7](https://forms.gle/MnpmGED4ggYz3GFd7) and fill it out with your email and password, so if you get locked out of your account, we can help.

Assignments on Khan will be published on May 15th. Make sure the assignments being completed are the ones assigned on the your "Home" tab: You may have to click “View assignments due later” to see all of them. If you join the course after May 15th, you may not instantly see those assignments. That’s because an ACE teacher has to assign them to you. If they do not show up in 24 hours, email the teacher above. The assignments online should match the list below.

**Part One:** Complete each of the following exercises on Khan Academy with a score of 100%. You have unlimited attempts until the first day of school @ 7:45am. Take advantage of the hints and videos provided through the website to prepare yourself for the next year of mathematics. You should see these assignments on your "Home" tab. Do not try to search these assignments out. If they have not been assigned to you, the results will not get to your teacher.

1. **Khan Assignment:** Factor Quadratics by grouping
2. **Khan Assignment:** Factor polynomials: common factor
3. **Khan Assignment:** Factor polynomials: quadratic methods
4. **Khan Assignment:** Factor polynomials: special product forms
5. **Khan Assignment:** Solutions to 2-variable equations
6. **Khan Assignment:** Equations with variables on both sides
7. **Khan Assignment:** Equations with parentheses
8. **Khan Assignment:** Equations with one rational expression
9. **Khan Assignment:** Graph quadratics: standard form
10. **Khan Assignment:** Simplify square roots (variables)
11. **Khan Assignment:** Simplify square roots
12. **Khan Assignment:** Simplify square root expressions
13. **Khan Assignment:** Solve quadratic equations with the quadratic formula
14. **Khan Assignment:** Domain and Range from graph
15. **Khan Assignment:** Range of quadratic functions
16. **Khan Assignment:** Piecewise function graphs
17. **Khan Assignment:** Radical Functions & their graphs
18. **Khan Assignment:** Graphing exponential growth & decay
19. **Khan Assignment:** Slope-intercept from two points
20. **Khan Assignment:** Graph from linear standard form
21. **Khan Assignment:** Special products of binomials
22. **Khan Assignment:** Trigonometric ratios in right triangles
23. **Khan Assignment:** Point-Slope Form
24. **Khan Assignment:** Solve for a side in right triangles
25. **Khan Assignment:** Solve for an angle in right triangles

**Part Two:** Must know information going into precalculus, review all of the following:

1. Parent Functions & their properties
2. Exponent Rules
3. Equation of a line
4. Solving equations of any kind
5. Characteristics of functions: Domain, Range, Intercepts, End Behavior, Intervals of Inc./Decreasing, Extrema, etc.
6. Using a graphing calculator to better understand functions: Calculating minimums/maximunums, calculating zeros, evaluating functions, etc.
7. Be comfortable with the parent functions on the back
$y = |x|$  

$y = x^2$  

$y = x^3$  

$y = x$  

$y = \sqrt{x}$  

$y = e^x$  

$y = 0$  

$x = 0$  

$y = \ln x$