# Algebra 2 & Trigonometry Midterm Study Guide

#### Outline of Major Topics

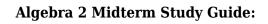
- 1. Absolute value equations and inequalities
- 2. Direct variation
- Functions (domain, range, evaluating, 1-1, onto, compositions)
- 4. Trig ratios (sin, cos, tan, csc, sec, cot)
- Exact values of trig functions
- 6. Sketching and using reference angles
- Unit circle
- 8. Arc length
- 9. Converting between degrees and radians
- 10. Trig graphs
- 11. Factoring
- Solving quadratic and cubic equations
- 13. Completing the square
- Complex numbers
- 15. Negative and fractional exponents
- Simplifying radicals
- 17. Solving radical equations
- 18. Inverses

#### Important Facts

- A function is a relation in which each element of the domain corresponds with exactly one element of the range.
- A function is one-to-one if each element of the range corresponds to exactly one x-value in the domain.
- The sum of the roots of a quadratic equation is b/a.
- The product of the roots of a quadratic equation is \( \frac{\epsilon}{a} \).
- To complete the square add \$\binom{b}{2}\$^2
- Number pairs of the form a + bi and a bi are complex conjugates.
- On the graphs of y = A sin(Bx) and y = A sin(Bx)
  - |A| = Amplitude
  - o B is the frequency or the number of cycles from 0 to  $2\pi$  .
  - $o = \frac{2\pi}{n}$  is the period of the function.

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