

Algebra 2 & Trigonometry

Midterm Study Guide

Outline of Major Topics

1. Absolute value equations and inequalities
2. Direct variation
3. Functions (domain, range, evaluating, 1-1, onto, compositions)
4. Trig ratios (sin, cos, tan, csc, sec, cot)
5. Exact values of trig functions
6. Sketching and using reference angles
7. Unit circle
8. Arc length
9. Converting between degrees and radians
10. Trig graphs
11. Factoring
12. Solving quadratic and cubic equations
13. Completing the square
14. Complex numbers
15. Negative and fractional exponents
16. 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 $-\frac{b}{a}$.
- The product of the roots of a quadratic equation is $\frac{c}{a}$.
- To complete the square add $\left(\frac{b}{2}\right)^2$
- Number pairs of the form $a + bi$ and $a - bi$ are complex conjugates.
- On the graphs of $y = A \sin(Bx)$ and $y = A \cos(Bx)$
 - $|A|$ = Amplitude
 - B is the frequency or the number of cycles from 0 to 2π .
 - $\left|\frac{2\pi}{B}\right|$ is the period of the function.

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