

Algebra II SOL Study Sheet

Quadratics

Standard Form: $ax^2 + bx + c$

Put in $y=$ see where the graph crosses the x axis

2nd calc, Zero, left, right, enter

Roots

Zeros

Solutions

Factors (Inverse #s of zeros)



Monomials

Coefficient, Base, Exponent Ex:
 $3x^2$

Rules of Exponents

- $a^m \cdot a^n = a^{m+n}$ Multiply: Add exponents
- $a^m / a^n = a^{m-n}$ Divide: Subtract exponents
- $(a^m)^n = a^{m \cdot n}$ Power of Power: Multiply exponents
- $a^0 = 1$ Anything to the 0 power is 1
- $a^{-n} = 1/a^n$ If an exponent is negative upstairs then it will be positive in the downstairs.

Commutative: Change Order
Associative: Regroup-move ()
Distributive: multiply through ()
Identities: 0 (Add) & 1 (Multiply)
Inverse: Opposites (add #s to 0) & Reciprocals (multiply #s to 1)

Properties

Reflexive: $a=a$ (yes!)
Symmetric: If $a=b$, then $b=a$
Transitive: If $a=b$ and $b=c$ then $a=c$
Substitution: replacing one term for two

Factoring Standard: $ax^2 + bx + c$

- Find a GCF (If there is one)
- Find a number that multiplies to give you c but adds to give you b .
* $c + b$
Write in $(x + \quad)(x + \quad)$

Example of Case #1

$$x^2 - 16x + 64 = (x-8)(x-8)$$

Example of Case #2 (you can use slide & divide)

$$3x^2 + x - 2 = (3x-2)(x+1)$$

Difference of Squares: $x^2 - 4 = (x+2)(x-2)$

Sum of Cubes: $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$ Remember: **Same Opposite Always Positive**

Difference of Cubes: $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$ SOAP

Solving Quadratic Equations

$$ax^2 + bx + c = 0$$

Remember: Roots = zeros = solutions = x-intercepts

- Method 1: Solving by factoring
 - If Factorable, factor the polynomial
 - Set each factor equal to zero and then solve for x
- Method 2: Quadratic formula if polynomial is not factorable

$$a. x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}, \quad b^2 - 4ac \text{ is called the discriminant}$$

- Method 3: Type quadratic equation in calculator $y =$
 - Graph the equation and where the **parabola** crosses the x axis is where the solution is
 - Using the table function:
 - 2nd table (2nd graph): The solution is the x value when y is equal to 0

$b^2 - 4ac > 0$	2 real roots
$b^2 - 4ac < 0$	2 imaginary roots
$b^2 - 4ac = 0$	1 real root (Duplicity)

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