

Algebra 2 – Things to Remember!



Exponents:

$$x^0 = 1 \quad x^{-a} = \frac{1}{x^a}$$

$$x^a \cdot x^b = x^{a+b} \quad (x^a)^b = x^{a \cdot b}$$

$$\frac{x^a}{x^b} = x^{a-b} \quad \left(\frac{x}{y}\right)^a = \frac{x^a}{y^a}$$

$$(xy)^a = x^a \cdot y^a$$

Complex Numbers:

$$\sqrt{-1} = i \quad \sqrt{-a} = i\sqrt{a}; a \geq 0$$

$$i^2 = -1 \quad i^4 = i^2 \cdot i^2 = -1 \text{ divide exponent by 4, use remainder, solve.}$$

$$(a+bi) \text{ conjugate } (a-bi)$$

$$(a+bi)(a-bi) = a^2 + b^2$$

$$|a+bi| = \sqrt{a^2 + b^2} \text{ absolute value=magnitude}$$

Logarithms

$$y = \log_b x \Leftrightarrow x = b^y$$

$$\ln x = \log_e x \text{ natural log}$$

$$\log x = \log_{10} x \text{ common log}$$

$$e = 2.71828...$$

$$\text{Change of base formula:}$$

$$\log_b a = \frac{\log a}{\log b}$$

Properties of Logs:

$$\log_b b = 1 \quad \log_b 1 = 0$$

$$\log_b (m \cdot n) = \log_b m + \log_b n$$

$$\log_b \left(\frac{m}{n}\right) = \log_b m - \log_b n$$

$$\log_b (m^r) = r \log_b m$$

$$\text{Domain: } \log_b x \text{ is } x > 0$$

Factoring:

Look to see if there is a GCF (greatest common factor) first. $ab+ac = a(b+c)$

$$x^2 - a^2 = (x-a)(x+a)$$

$$(x+a)^2 = x^2 + 2ax + a^2$$

$$(x-a)^2 = x^2 - 2ax + a^2$$

Factor by Grouping:

$$x^3 + 2x^2 - 3x - 6$$

x³ x² x¹ x⁰

(x³ + 2x²) - (3x + 6) group

x²(x+2) - 3(x+2) factor each

(x² - 3)(x+2) factor

Exponentials $e^x = \exp(x)$

$$b^x = b^y \rightarrow x = y \quad (b > 0 \text{ and } b \neq 1)$$

If the bases are the same, set the exponents equal and solve.

Solving exponential equations:

1. Isolate exponential expression.
2. Take $\log$ or $\ln$ of both sides.
3. Solve for the variable.

$\ln(x)$ and e^x are inverse functions

$$\ln e^x = x \quad e^{\ln x} = x$$

$$\ln e = 1 \quad e^{\ln 4} = 4$$

$$e^{2\ln 3} = e^{\ln 9} = 9$$

Quadratic Equations: $ax^2 + bx + c = 0$ (Set = 0.)

Solve by factoring, completing the square, quadratic formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$b^2 - 4ac > 0 \text{ two real unequal roots}$$

$$b^2 - 4ac = 0 \text{ repeated real roots}$$

$$b^2 - 4ac < 0 \text{ two complex roots}$$

Square root property: If $x^2 = m$, then $x = \pm\sqrt{m}$

Completing the square: $x^2 - 2x - 5 = 0$

1. If other than one, divide by coefficient of x^2
2. Move constant term to other side $x^2 - 2x = 5$
3. Take half of coefficient of x , square it, add to both sides $x^2 - 2x + \boxed{1} = 5 + \boxed{1}$
4. Factor perfect square on left side. $(x-1)^2 = 6$
5. Use square root property to solve and get two answers. $x = 1 \pm \sqrt{6}$

Sum of roots: $r_1 + r_2 = -\frac{b}{a}$ Product of roots: $r_1 \cdot r_2 = \frac{c}{a}$

Variation: always involves the constant of proportionality, k . Find k , and then proceed.

Direct variation: $y = kx$

Inverse variation: $y = \frac{k}{x}$

Varies jointly: $y = kxy$

Combo: Sales vary directly with advertising and inversely with candy cost.

$$y = \frac{ka}{c}$$

Absolute Value: $|x| > 0$

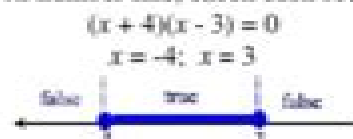
$$|a| = \begin{cases} a, & a \geq 0 \\ -a, & a < 0 \end{cases}$$

$$|m| = b \Rightarrow m = -b \text{ or } m = b$$

$$|m| < b \Rightarrow -b < m < b$$

$$|m| > b \Rightarrow m > b \text{ or } m < -b$$

Inequalities: $x^2 + x - 12 \leq 0$ Change to $=$, factor, locate critical points on number line, check each section.



ANSWER: $-4 < x < 3$ or $[-4, 3]$ (in interval notation)

Algebra 2 Reference Guide Problem Set

Troy Martin Hughes



Algebra 2 Reference Guide Problem Set:

GMAT Algebra Strategy Guide Manhattan Prep, 2014-12-02 The Algebra GMAT Strategy Guide covers algebra in all its various forms and disguises on the GMAT helping you master both fundamental techniques and nuanced strategies for solving algebraic problems Unlike other guides that attempt to convey everything in a single tome the Algebra GMAT Strategy Guide is designed to provide deep focused coverage of one specialized area tested on the GMAT As a result students benefit from thorough and comprehensive subject material clear explanations of fundamental principles and step by step instructions of important techniques In action practice problems and detailed answer explanations challenge the student while topical sets of Official Guide problems provide the opportunity for further growth Used by itself or with other Manhattan Prep Strategy Guides the Algebra GMAT Strategy Guide will help students develop all the knowledge skills and strategic thinking necessary for success on the GMAT Purchase of this book includes six months of access to Manhattan Prep's Algebra Question Bank All of Manhattan Prep's GMAT Strategy Guides are aligned with the GMAC Official Guide 2016 edition

OMNITAB II User's Reference Manual David Hogben, Sally T. Peavy, Ruth N. Varner, 1971

Resources in Education, 2001-04

PROC FCMP User-Defined Functions Troy Martin Hughes, 2024-04-01 Elevate your programming skills with PROC FCMP In PROC FCMP User Defined Functions readers are introduced to the SAS Function Compiler which enables users to create user defined functions and subroutines These modular callable software components complement the diverse array of SAS built in functions and extend the SAS programming language creating more building blocks for constructing future software The book opens by introducing the role of functions in software design and explaining how functions improve software quality characteristics It then moves on to basic PROC FCMP syntax including how to define and call user defined functions Next readers learn about the SAS array and hash object the primary data structures leveraged by PROC FCMP and how PROC FCMP can manipulate them behind the scenes Finally the Python Component Object is introduced which facilitates the interoperability of SAS and Python PROC FCMP runs Python functions natively inside a SAS wrapper which allows open source functions to be incorporated without needing to be rewritten in SAS PROC FCMP is a game changer This book empowers readers to not only build better software but also to embrace a more productive and efficient software development environment

Numerical Methods In Engineering & Science Carl .E. Pearson, 1986-05-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education

Popular Science, 1960-03 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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