Algebra Formula Sheet

Slope

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{rise}{run}$$

Parabolas

Standard Form

$y = ax^2 + bx + c$

Vertex: $x = \frac{-b}{2a}$

Vertical

$4p(y - k) = (x - h)^2$

Vertex: (h, k)

Opens: Up $(+p)$ or Down $(-p)$

Focus: $(h, k + p)$

Directrix: $y = k - p$

Axis of Symmetry: $x = h$

Horizontal

$4p(x - h) = (y - k)^2$

Vertex: (h, k)

Opens: Right $(+p)$ or Left $(-p)$

Focus: $(h + p, k)$

Directrix: $x = h - p$

Axis of Symmetry: $y = k$

Ellipse

Horizontal $(a > b)$

$$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$$

Center: (h, k)

Vertices: $(h \pm a, k)$

Covertices: $(h, k \pm b)$

Major Axis Length: $2a$

Minor Axis Length: $2b$

Foci: $(h \pm c, k)$

$c^2 = a^2 - b^2$

Eccentricity: $e = \frac{c}{a}$

Vertical $(b > a)$

$$\frac{(x - h)^2}{b^2} + \frac{(y - k)^2}{a^2} = 1$$

Center: (h, k)

Vertices: $(h, k \pm a)$

Covertices: $(h \pm b, k)$

Major Axis Length: $2a$

Minor Axis Length: $2b$

Foci: $(h, k \pm c)$

$c^2 = a^2 - b^2$

Hyperbolas

Horizontal

$$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$$

Center: (h, k)

Opens: Right/ Left

Vertices: $(h \pm a, k)$

Transverse Length: $2a$

Conjugate Length: $2b$

Foci: $(h \pm c, k)$

$a^2 + b^2 = c^2$

Slope: $\pm \frac{b}{a}$

Asymptotes:

$$y = \pm \frac{b}{a}(x - h) + k$$

Eccentricity: $e = \frac{c}{a}$

Vertical

$$\frac{(y - k)^2}{a^2} - \frac{(x - h)^2}{b^2} = 1$$

Center: (h, k)

Opens: Up/ Down

Vertices: $(h, k \pm a)$

Major Length: $2a$

Minor Length: $2b$

Foci: $(h, k \pm c)$

$a^2 + b^2 = c^2$

Slope: $\pm \frac{a}{b}$

Asymptotes:

$$y = \pm \frac{a}{b}(x - h) + k$$

Eccentricity: $e = \frac{c}{a}$

Circle

$(x - h)^2 + (y - k)^2 = r^2$

center: (h, k)

radius: r

Triangle Inequality

$|a + b| \leq |a| + |b|$

Distance Formula

$D = R * T$

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Complex Numbers

$i = \sqrt{-1}, \; i^2 = -1, \; i^3 = -i, \; i^4 = 1$

$a + bi$ standard form

$|a + bi| = \sqrt{a^2 + b^2}$

Factoring

Difference of Squares

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

Sum/ Difference of Squares

$(a + b)^2 = a^2 + 2ab + b^2$

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

Sum/ Difference of Cubes

$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

Midpoint Formula

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Lines

Point-Slope Form

$y - y_1 = m * (x - x_1)$

Slope-Intercept Form

$y = mx + b$

Standard Form

$ax + by = c$

Quadratic Formula

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

Discriminant:

$b^2 - 4ac > 0$: 2 real solutions

$b^2 - 4ac = 0$: 1 real solution

$b^2 - 4ac < 0$: 2 imaginary/ complex solutions

Statistics

$$_nC_r = \frac{n!}{r!(n - r)!} \text{ Combination}$$

$$_nP_r = \frac{n!}{(n - r)!} \text{ Permutations}$$

Binomial Probability Formula

$$P = \binom{n}{k} p^k q^{n-k}$$

Pythagorean Theorem

$a^2 + b^2 = c^2$ Right

$a^2 + b^2 > c^2$ Acute

$a^2 + b^2 < c^2$ Obtuse

Rebecca Darko

List For All Formulas For Algebra 1

Vladimir Golenkov,Viktor Krasnoproshin,Vladimir Golovko,Daniil Shunkevich

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proceedings of the proceedings of the 32nd International Conference on Automated Reasoning with Analytic Tableaux and Related Methods TABLEAUX 2023 held in Prague Czech Republic during September 18 21 2023 The 20 full papers and 5 short papers included in this book together with 5 abstracts of invited talks were carefully reviewed and selected from 43 submissions They present research on all aspects of the mechanization of reasoning with tableaux and related methods The papers are organized in the following topical sections tableau calculi sequent calculi theorem proving non wellfounded proofs modal logics linear logic and MV algebras separation logic and first order logics *Open Semantic Technologies for Intelligent Systems* Vladimir Golenkov,Viktor Krasnoproshin,Vladimir Golovko,Daniil Shunkevich,2022-09-27 This book constitutes the refereed proceedings of the 11th International Conference on Open Semantic Technologies for Intelligent Systems OSTIS 2021 held in Minsk Belarus during September 16 18 2021 The 20 full papers included in this book were carefully reviewed and selected from 46 submissions The papers are focused on the development of flexible and compatible technologies that provide fast and high quality construction of intelligent systems for various purposes **Boolean Differential Equations** Bernd Steinbach,Christian Posthoff,2022-05-31 The Boolean Differential Calculus BDC is a very powerful theory that extends the structure of a Boolean Algebra significantly Based on a small number of definitions many theorems have been proven The available operations have been efficiently implemented in several software packages There is a very wide field of applications While a Boolean Algebra is focused on values of logic functions the BDC allows the evaluation of changes of function values Such changes can be explored for pairs of function values as well as for whole subspaces Due to the same basic data structures the BDC can be applied to any task described by logic functions and equations together with the Boolean Algebra The BDC can be widely used for the analysis synthesis and testing of digital circuits Generally speaking a Boolean differential equation BDE is an equation in which elements of the BDC appear It includes variables functions and derivative operations of these functions The solution of such a BDE is a set of Boolean functions This is a significant extension of Boolean equations which have sets of Boolean vectors as solutions In the simplest BDE a derivative operation of the BDC on the left hand side is equal to a logic function on the right hand side The solution of such a simple BDE means to execute an operation which is inverse to the given derivative BDEs can be applied in the same fields as the BDC however their possibility to express sets of Boolean functions extends the application field significantly Theoretical Mechanics Percey Franklyn Smith,William Raymond Longley,1910 *College Algebra* Cynthia Y. Young,2012-10-02 This is the Student Solutions Manual to accompany College Algebra 3rd Edition The 3rd edition of Cynthia Young s College Algebra brings together all the elements that have allowed instructors and learners to successfully bridge the gap between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students ability to do mathematics Written in a clear voice that speaks to students and mirrors how instructors communicate in lecture Young s hallmark pedagogy enables students to become independent successful learners

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Table of Contents List For All Formulas For Algebra 1

1. Understanding the eBook List For All Formulas For Algebra 1
   - The Rise of Digital Reading List For All Formulas For Algebra 1
   - Advantages of eBooks Over Traditional Books
2. Identifying List For All Formulas For Algebra 1
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an List For All Formulas For Algebra 1
   - User-Friendly Interface
4. Exploring eBook Recommendations from List For All Formulas For Algebra 1
   - Personalized Recommendations
   - List For All Formulas For Algebra 1 User Reviews and Ratings
   - List For All Formulas For Algebra 1 and Bestseller Lists
5. Accessing List For All Formulas For Algebra 1 Free and Paid eBooks

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