

Algebra is Easy Part 1 CHEAT SHEET



Graphing on a coordinate grid

Always (x, y)

x = left or right

y = up or down

Finding the x-intercept

The x-intercept is where the line crosses the x-axis.
y = 0 IS THE X-AXIS.
Plug in y = 0 to the equation and solve for x to find the x-intercept.

$$2x + 6y = 12$$

$$2x + 6(0) = 12$$

$$2x = 12$$

$$x = 6$$

x-intercept is at (6, 0)



Graphing using a table

Make an x/y table

Plug in values for x (you choose) and solve the equation to get the y values.

Finding the y-intercept

The y-intercept is where the line crosses the y-axis.
x = 0 IS THE Y-AXIS.
Plug in x = 0 to the equation and solve for y to find the y-intercept.

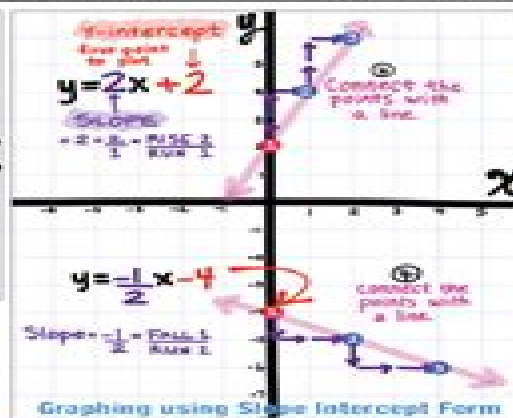
$$2x + 6y = 12$$

$$2(0) + 6y = 12$$

$$6y = 12$$

$$y = 2$$

y-intercept is at (0, 2)



Graphing using Slope Intercept Form

Finding Slope from two points

$$m = \text{slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 2}{2 - 1} = \frac{1}{1} = 1$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 2}{2 - 1} = \frac{1}{1} = 1$$

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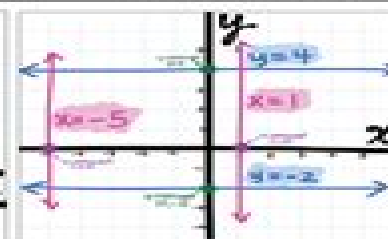
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Graphing Horizontal & Vertical Lines

Equations with y = # are HORIZONTAL, going through that number on the y-axis.
Example: y = 4, y = -2

Equations with x = # are VERTICAL, going through that number on the x-axis.
Example: x = -5, x = 1

Point Slope Form $y - y_1 = m(x - x_1)$

Plug in the given point (x, y) into the formula along with the given slope. (Sometimes you have to find slope given two points, then plug it into Point Slope Form).

$$\text{Given: } (2, 3) \quad m = -1$$

$$y - 3 = -1(x - 2)$$

5. Graphing Parallel Lines HAVE THE SAME SLOPE ($m = 2$, $m = 2$).
 $y = 2x - 3$ and $y = 2x + 5$ are parallel lines.

Perpendicular Lines have the OPPOSITE RECIPROCAL SLOPE. ($m = 2$, $m = -1/2$)
 $y = 2x - 3$ and $y = -1/2x + 4$ are perpendicular lines.

6. Inequalities

Adding and Subtracting Inequalities
Similar to adding and subtracting equations except inequalities give a large range of answers. For example, $x < 2$ means that x can be ANY NUMBER less than 2.
 $x = 2$ means that x can ONLY EQUAL 2.

Multiplying and Dividing Inequalities
Similar to adding and subtracting equations except if you multiply or divide BY A NEGATIVE NUMBER, THE DIRECTION OF THE INEQUALITY SWITCHES.

$$\begin{array}{r} x + 3 < 5 \\ x + 3 < 5 \\ \hline x < 2 \end{array}$$

$$x < 2$$

$$x < 2$$

$$\begin{array}{r} -5x > -20 \\ -5x > -20 \\ \hline x < 4 \end{array}$$

$$x < 4$$

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$$x < 4$$

$$x < 4$$

Multi-Step Inequalities

Similar to multi-step equations, whatever you do on one side of the inequality, you must do on the other side.

If you multiply or divide by a negative number, THE DIRECTION OF THE INEQUALITY SWITCHES.

Distribute first, then add or subtract, and finally multiply or divide to get the final answer.

$$-3(2x + 5) < -18x$$

$$-3(2x + 5) < -18x$$

$$-6x - 15 < -18x$$

$$-6x - 15 < -18x$$

$$-6x - 15 < -18x$$

$$-6x - 15 < -18x$$

$$-6x - 15 < -18x$$

Compound Inequalities
In compound inequalities, you must repeat the operation ON EITHER SIDE of the inequalities. Whatever is done in the middle section must also be done on both the left and right sides.

$$-5 \leq 7 - 3x < 25$$

$$-5 \leq 7 - 3x < 25$$

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$$-5 \leq 7 - 3x < 25$$

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$$-5 \leq 7 - 3x < 25$$

$$A. 3|2x + 6| - 7 \leq 5$$

$$3|2x + 6| - 7 \leq 5$$

$$3|2x + 6| - 7 \leq 5$$

$$3|2x + 6| - 7 \leq 5$$

$$3|2x + 6| - 7 \leq 5$$

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$$3|2x + 6| - 7 \leq 5$$

$$3|2x + 6| - 7 \leq 5$$

Absolute Value Inequalities
Review absolute value equations. When making the TWO EQUATIONS, one remains the same and the other SWITCHES DIRECTION.

Graphing Inequalities on a Grid

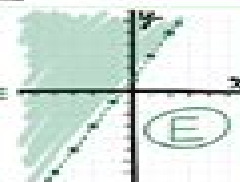
< or > is dashed ----

≤ or ≥ is solid —

If greater than, SHADE ABOVE THE LINE
If less than, SHADE BELOW THE LINE

$$y > 2x + 1$$

dashed; greater than, shaded above



Algebra is Easy Part 1

By April Chloe Terrazas

Apex Cheat Sheet Algebra 1

Annelies Wilder-Smith



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Table of Contents Apex Cheat Sheet Algebra 1

1. Understanding the eBook Apex Cheat Sheet Algebra 1
 - The Rise of Digital Reading Apex Cheat Sheet Algebra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Apex Cheat Sheet 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 Apex Cheat Sheet Algebra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Apex Cheat Sheet Algebra 1
 - Personalized Recommendations
 - Apex Cheat Sheet Algebra 1 User Reviews and Ratings
 - Apex Cheat Sheet Algebra 1 and Bestseller Lists
5. Accessing Apex Cheat Sheet Algebra 1 Free and Paid eBooks
 - Apex Cheat Sheet Algebra 1 Public Domain eBooks
 - Apex Cheat Sheet Algebra 1 eBook Subscription Services

- Apex Cheat Sheet Algebra 1 Budget-Friendly Options
- 6. Navigating Apex Cheat Sheet Algebra 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Apex Cheat Sheet Algebra 1 Compatibility with Devices
 - Apex Cheat Sheet Algebra 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Apex Cheat Sheet Algebra 1
 - Highlighting and Note-Taking Apex Cheat Sheet Algebra 1
 - Interactive Elements Apex Cheat Sheet Algebra 1
- 8. Staying Engaged with Apex Cheat Sheet Algebra 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Apex Cheat Sheet Algebra 1
- 9. Balancing eBooks and Physical Books Apex Cheat Sheet Algebra 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Apex Cheat Sheet Algebra 1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Apex Cheat Sheet Algebra 1
 - Setting Reading Goals Apex Cheat Sheet Algebra 1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Apex Cheat Sheet Algebra 1
 - Fact-Checking eBook Content of Apex Cheat Sheet Algebra 1
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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