Algebra – Part 2

Parts 1 & 2 combined cover principles for basic, intermediate & college courses

GRAPHING

REAL NUMBER LINE

Most of the graphs you see in algebra are the real number line, or solutions to one-variable equations.

SYMBOL & GRAPHIC NOTATION

= SYMBOL - CLOSED CIRCLE

EX: $x = -2$

> SYMBOL - OPEN CIRCLE AND A RAY

EX: $x > 4$

< SYMBOL - OPEN CIRCLE AND A RAY

EX: $x < -1$

≥ SYMBOL - CLOSED CIRCLE AND A RAY

EX: $x \geq 3$

≤ SYMBOL - CLOSED CIRCLE AND A RAY

EX: $x \leq 2$

- The direction of the ray is determined by picking (at random) a value on each side of the circle. The ray goes in the direction of the point that makes the inequality true.

–GRAPH TO SOLVE ABSOLUTE VALUE STATEMENTS

1. Equations: To solve $|ax + b| = c$, where $c > 0$, solve both equations $ax + b = c$ and $ax + b = -c$; graph the union of the two solutions.
2. Inequalities:
   a. To solve $|ax + b| < c$, where $c > 0$, solve $ax + b < c$ and $ax + b > -c$; these two inequalities may be written as one: $-c < ax + b < c$; graph the intersection of the two solutions.
   b. To solve $|ax + b| > c$, where $c > 0$, solve $ax + b > c$ or $ax + b < -c$; graph the union of the two solutions.

RECTANGULAR (OR 2D CARTESIAN) COORDINATE SYSTEM

Method using perpendicular lines intersecting at 90-degree angles for locating and naming points of a plane. The vertical line is the y-axis. The horizontal line is the x-axis. The point where they intersect is called the origin.

- **LOCATING POINTS (ORDERED PAIRS)**

Each point on the coordinate plane is named or located by using an ordered pair of numbers separated by a comma and enclosed in a set of parentheses; first number is x-coordinate or abscissa; second number is y-coordinate or ordinate; that is, an ordered pair is of the form (x, y). The origin is $(0, 0)$.

- **QUADRANTS**

The x-axis and the y-axis separate a 2D plane into fourths. Each fourth is called a quadrant. The quadrants are labeled using Roman numerals, starting with the upper right quadrant, and continuing counterclockwise through quadrants I, II, III, and IV (which is the lower right quadrant).

- **DISTANCE FORMULA:** $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Finds distance between two points, (x_1, y_1) and (x_2, y_2). It is derived from the application of the Pythagorean Theorem and always results in a non-negative number.

- **MIDPOINT FORMULA:** $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Determines the coordinates of the midpoint of a line segment with endpoints of (x_1, y_1) and (x_2, y_2).

LINES

SLOPE OF A LINE

The slope of a line can loosely be described as the slant of the line. If the line slants up from left to right, the slope will be a positive number (as the x-coordinate rises, so does the y-coordinate). If the line slants down from left to right, the slope will be a negative number (x and y are negatively correlated). If the line is horizontal, then the slope is zero. If the line is vertical, then the slope of the line is undefined.

- **FORMULA:** The slope (traditionally m) can be found using two distinct points $A = (x_1, y_1)$ and $B = (x_2, y_2)$ on the line and using x-coordinates and y-coordinates in the formula:

$$m = \frac{(y_2 - y_1)}{(x_2 - x_1)} = \frac{\text{change in } y}{\text{change in } x} = \frac{\Delta y}{\Delta x} = \frac{\text{rise}}{\text{run}}$$

- **PARALLEL:** The slopes of parallel lines are equal.
- **VERTICAL:** $\frac{\Delta y}{\Delta x} = \frac{\Delta y}{0}$ = infinity or undefined.
- **PERPENDICULAR:** The slopes of perpendicular lines are opposite reciprocals. If the slope of L_1 is m_1 and the slope of L_2 is m_2, and the lines are perpendicular, then $m_1 = -1/m_2$ or $(m_1)(m_2) = -1$.

EX: If the slope of a line is $-\frac{3}{4}$, then the slope of the line that is perpendicular to it is $+\frac{4}{3}$.

LINEAR EQUATIONS (EQUATIONS OF LINES)

- The slope-intercept form of the equation of a line is $y = mx + b$, where m is the slope of the line and b is the y-intercept (y-value of the point where the line intersects the y-axis).
- The standard form of the equation of a line is $ax + by = c$, where the number values for a, b, and c are integers (note that b does not represent the y-intercept in this form).
- Lines that intersect the x-axis (a horizontal line $y = 0$) contain the variable x in the linear equation; lines that intersect the y-axis (a vertical line $x = 0$) contain the variable y in the linear equation; and lines that intersect both the x-axis and the y-axis have both variables x and y in the linear equation.

GRAPHING

When the equation of a line is known, it may be graphed in any of the following ways:

- Horizontal lines have equations that simplify to the form $y = b$, where b is the y-intercept. The slope of these lines is zero.
- Vertical lines have equations that simplify to the form $x = c$, where c is the x-intercept. These lines have an undefined slope.
- Find at least two points that make the equation true and, therefore, on the line. Finding a third point is one method of checking for errors. If all three points do not form a line, then there is an error in at least one of the points. To find these points:
  1. Choose a number at random.
  2. Substitute the number into the linear equation for either the x or the y variable.
  3. Solve the resulting equation for the other variable.
  4. The randomly selected number (step 1) and solution number (step 3) result in one point: (x, y).
  5. Repeat steps 1 through 4 above until the desired number of points have been found.
  6. Plot the points and connect them; the resulting graph should be a line.
- Plot the x-intercept and the y-intercept.
  1. Substitute zero for the y-variable in the equation and solve for x to find the x-intercept.
  2. Substitute zero for the x-variable in the equation and solve for y to find the y-intercept.
  3. Plot these two points and draw the graph of the line that contains them.

NOTE: If the y-intercept and the x-intercept are both at the origin $(0, 0)$, find at least one more point to draw the graph of the line.

- Write the equation in slope-intercept form. Plot the point where the line crosses the y-axis (it has $x = 0$ and $y = b$), use the slope to plot additional points on the line (rise over run), and connect the points to draw the graph of the line.
- Find the slope of the line and one point on the line. Plot the point first, then use the slope to plot additional points on the line. That is, count the slope as rise over run beginning at the point that was just plotted.

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