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Graphing Systems Of Equations Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is a system of equations?

undefined. A) A single equation with multiple variables

undefined. B) A set of equations with the same variables ✓

undefined. C) A graph with no solutions

undefined. D) A single equation with one variable

A system of equations is a set of equations with the same variables.

Which of the following are types of solutions for a system of equations?

undefined. A) One solution ✓

undefined. B) No solution ✓

undefined. C) Two solutions

undefined. D) Infinitely many solutions ✓

The types of solutions include one solution, no solution, and infinitely many solutions.

Explain what it means for two lines to be coincident.

Two lines are coincident if they lie on top of each other, meaning they have all points in common.

List the three methods used to graphically solve a system of equations.

1. Method 1
Graph plotting

2. Method 2
Substitution

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3. Method 3
Elimination

The three methods are graph plotting, substitution, and elimination.

Part 2: Comprehension and Interpretation

What does it mean when two lines on a graph are parallel?

undefined. A) They intersect at one point.

undefined. B) They have the same slope but different y-intercepts. ✓

undefined. C) They have different slopes.

undefined. D) They are the same line.

Parallel lines have the same slope but different y-intercepts, meaning they never intersect.

Which of the following statements are true about the slope-intercept form of a line?

undefined. A) It is written as y = mx + b. ✓

undefined. B) m represents the y-intercept.

undefined. C) b represents the slope.

undefined. D) It is useful for graphting linear equations. ✓

The slope-intercept form is y = mx + b, where m is the slope and b is the y-intercept.

Describe how you would verify if a point is a solution to a system of equations.

To verify if a point is a solution, substitute the x and y values into both equations and check if both equations are satisfied.

Part 3: Application and Analysis

If a system of equations has no solution, what can be said about the graphs of the equations?

undefined. A) They intersect at one point.

undefined. B) They are parallel. ✓

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undefined. C) They are coincident.

undefined. D) They intersect at multiple points.

If a system has no solution, the graphs of the equations are parallel and never intersect.

When graphING the system of equations y = 2x + 3 and y = -x + 1, which steps would you take?

undefined. A) Find the y-intercepts of both equations. ✓

undefined. B) Calculate the intersection point.

undefined. C) Plot the points and draw the lines. ✓

undefined. D) Check if the lines are parallel.

To graph the system, find the y-intercepts, plot points, and draw the lines.

Given the equations y = 3x - 2 and y = 3x + 4, explain why they do not have a solution.

The lines do not have a solution because they are parallel, having the same slope but different y-intercepts.

How can you determine the number of solutions a system of equations has by comparing their slopes and intercepts?

undefined. A) By checking if the slopes are equal and intercepts are different. ✓

undefined. B) By checking if the slopes are different.

undefined. C) By checking if the slopes and intercepts are equal.

undefined. D) By checking if the intercepts are different.

You can determine the number of solutions by checking if the slopes are equal and the intercepts are different.

Part 4: Evaluation and Creation

Which scenario best describes a system of equations with infinitely many solutions?

undefined. A) Two lines that intersect at one point.

undefined. B) Two lines that are parallel.

undefined. C) Two lines that are coincident. ✓

undefined. D) Two lines that never intersect.

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A system with infinitely many solutions is represented by two coincident lines.

Evaluate the system of equations y = -x + 2 and y = x - 2. Which of the following are true?

undefined. A) The lines intersect at one point. ✓

undefined. B) The system has no solution.

undefined. C) The lines are perpendicular. ✓

undefined. D) The system has infinitely many solutions.

The lines intersect at one point and are perpendicular.

Create a real-world problem that can be solved using a system of equations. Describe the equations and the solution.

A real-world problem could involve budgeting or distance, where two equations represent the constraints.

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