Introduction to Systems of Equations

agenda

Warm-Up

(Set up unit 4)

Notes p. 47-48

HW: Practice #1-7

Reminders

Hw 2.5 (not including last page!) due Friday!

Essential Question

How can I find if a point is a solution to a system?

Warm-Up Wednesday

In your notebook: Set up Unit 4!!

Next right hand side blank page (45) is Table of Contents.

Back of that is (p.46) vocabulary.

"4" tab goes on page 45!

On page 45 and 46 set up unit 4 in your notebook.

ToC should go on a RIGHT HAND PAGE

Put your "4" tab on page 45(fold along the dotted line)

45

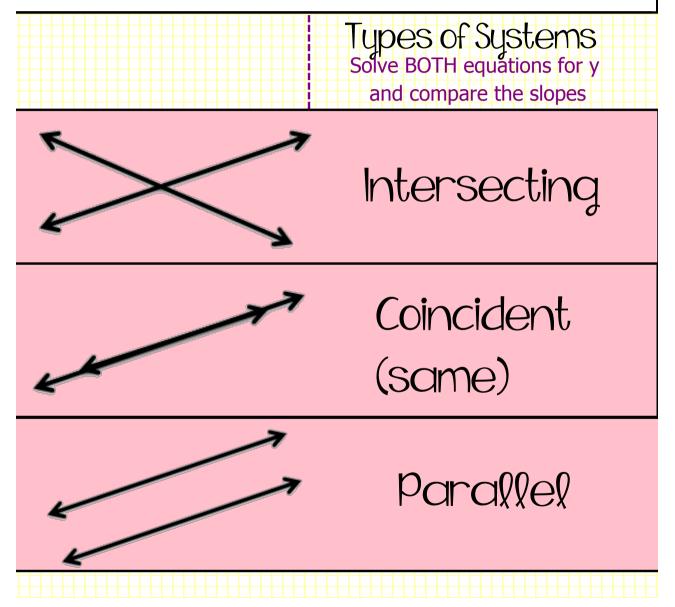


Systems

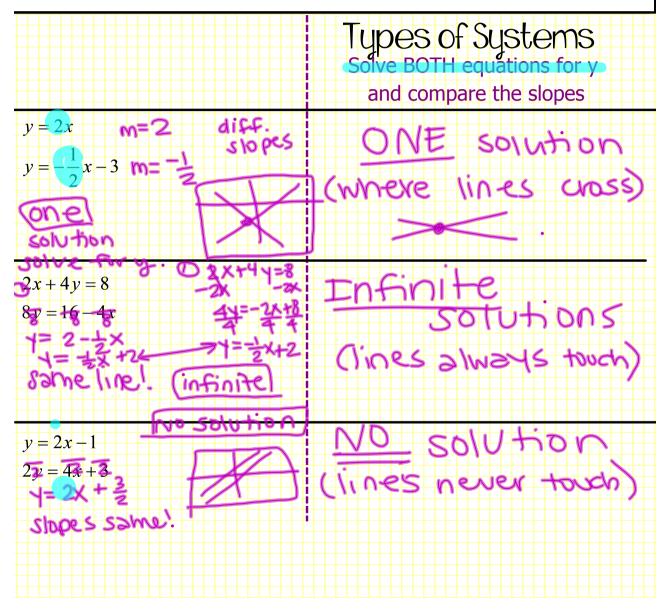
Page #	Page Title					
46	Words Worth Knowing					
47	Types of Systems					
48	Intro to Systems					

On page 45 and 46, set up unit 4 in your notebook. Put your "4" tab on page 45 (fold along the dotted line) **Unit 4 Words Worth Knowing** Unit 1: Sustems of Linear Equations Expression Equation Variable Constant Coefficient System of Equations Solution to a System Let Statement Intersecting Coincident Parallel No solution Infinite Solutions Graphing Substitution Elimination System of Inequalities Solution Set

Fold blue paper in half. Cut along the dotted lines and cut off the top flap (with an X). Glue onto page 47.



Fold blue paper in half. Cut along the dotted lines and cut off the top flap (with an X). Glue onto page 47.



Systems of Equations p. 48

Essential Question How can I find if a point is a solution to a system?

System of Equations:

a set of 2 linear equations that have the same 2 variables

A Solution to a System of Equations:

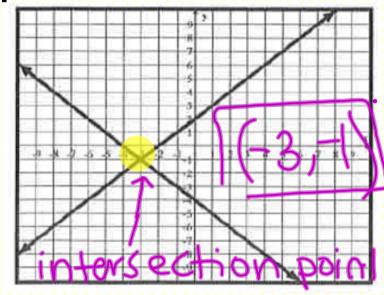
where the lines intersect or the point
that satisfies BOTH equations

Systems of Equations p. 48

Essential Question How can I find if a point is a solution to a system?

Determine the solutions to the following systems of equations

1.



Х	У	1888	X	у
-6_	6	3888	-6	-12
-2	-4		-4	-8
2	-2	, 7	-2	-4
6	0	8888	0	0
10	2	8888	2	4

solution is an (X,Y)

Systems of Equations p. 48

Essential Question How can I find if a point is a solution to a system?

Determine if the point given is a solution to the system of equations

$$\bigcirc \frac{2}{5}x - y = 0$$

$$x + 3y = 4$$

$$-x + y = 2$$

$$y + 3x = 9$$

$$y = 2x$$

Algebra I - Unit 6: Topic 1 - Intro to Systems

Practice - Intro to Systems

No textbook correlation

Date

Determine if the given point is a solution to the equation. Plug into worth



$$(-1, -4)$$
 3y = x - 11
-2x + y = -2

1.
$$(-3, 6)$$
 $2x - y = -12$
 $3x + 2y = -3$

3.
$$(4, 1)$$
 $x + 2y = 6$ $x - y = 3$

4.
$$(2, 1)$$
 $2x - 5y = -1$ $3x - 4y = -2$

Determine the number of solutions for each system. Write "one", "none" or "infinite".



$$5. \quad y = \frac{2}{3}x - 5$$
$$3y = 2x$$

6.
$$3x + y = 3$$
$$2y = -6x + 6$$

Systems of Equations HW Help

#1-4. Plug in each point (x,y). Does it make a true statement? YOU MUST SHOW WORK!!

1. No

2. Yes

3. Yes

4. no

#5-7. Solve all equations for y, then plug into your calculator OR find the slope (the number next to x). YOU MUST SHOW WORK!!

- 5. None
- 6. Infinite
- 7. None

Need more help? Drop by tutoring!!