Introduction to Systems of Equations

<u>agenda</u>

Warm-Up

Set up unit 6

Notes p. 75-76

HW: Practice #1-7

Reminders

ELA Test Wednesday

Essential Question

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

Turn in Twizzlers Extra Credit now!!

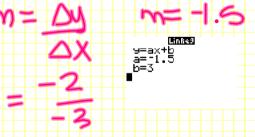
Warm-Up - Monday

1. Which of the following tables best represents a linear function with a rate of change of -3?

(Hint: use stat)

4					
X	у		х	У	
0	-8	2	9	-4	2
-6	-4	-5 C	6	-6	_
-9	-2		-6	-14	H
-12	0		-9	-16	
-9	-4 -2 0		- -		

>				D)	
	x	у		×	У
2	-4	9	12	-3	15
76	-6	12	16	-1	-5
	0	3		2	-14
	2	0		3	-17
7					



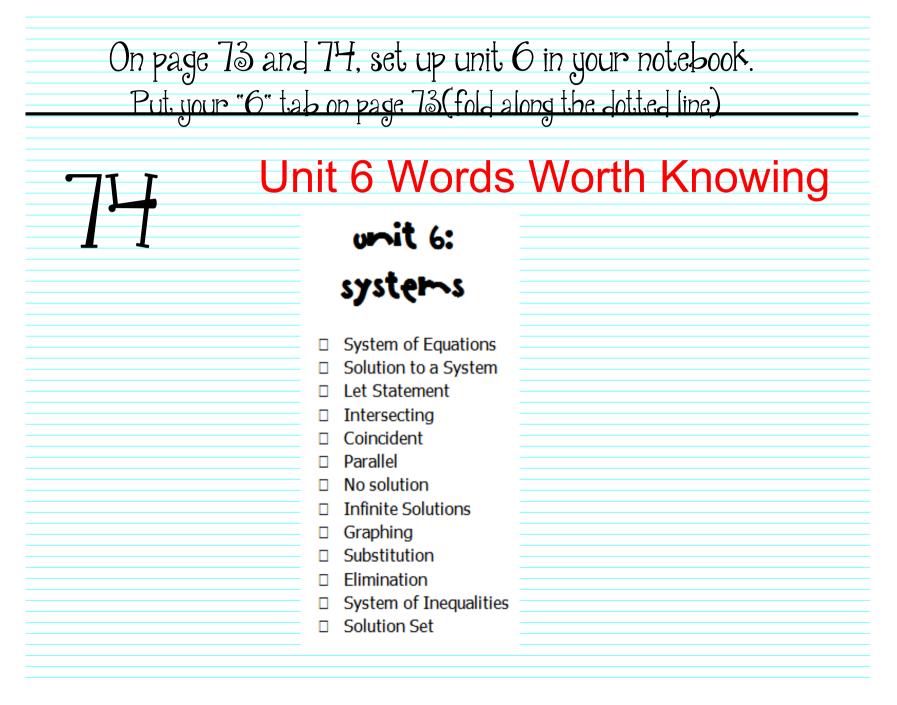
On page 73 and 74, set up unit 6 in your notebook.

Page 72 is BLANK!!

Put your "6" tab on page 73 (fold along the dotted line)

くろり	TITLE:
6	Systems

Page #	Page Title
74	Words Worth Knowing
75	Intro to Systems Types of Systems
76	Types of Systems



Systems of Equations p. 75

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

3x-2y=4 the same 2 variables y= ux-3 (ex) two lines on a graph

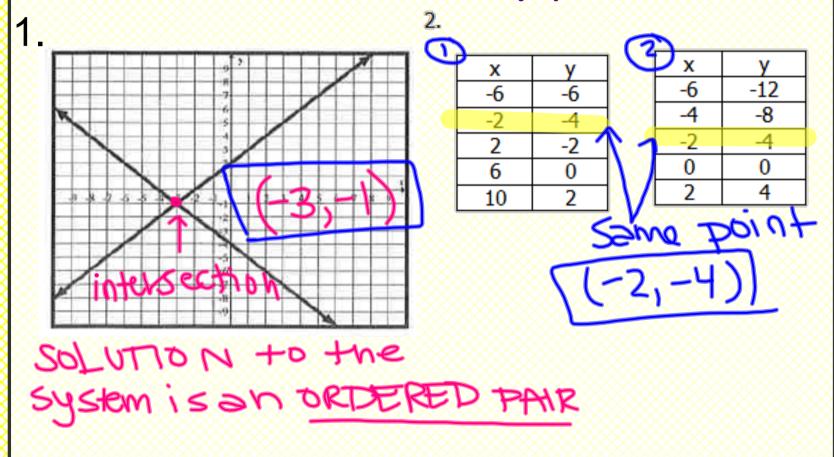
a Solution to a System of Equations:
where the lines intersect or the point

that satisfies BOTH equations

Systems of Equations p. 75

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

Determine the solutions to the following systems of equations



Fold blue paper in half. Cut along the dotted lines and cut off the top flap (with an X). Glue onto page 76.

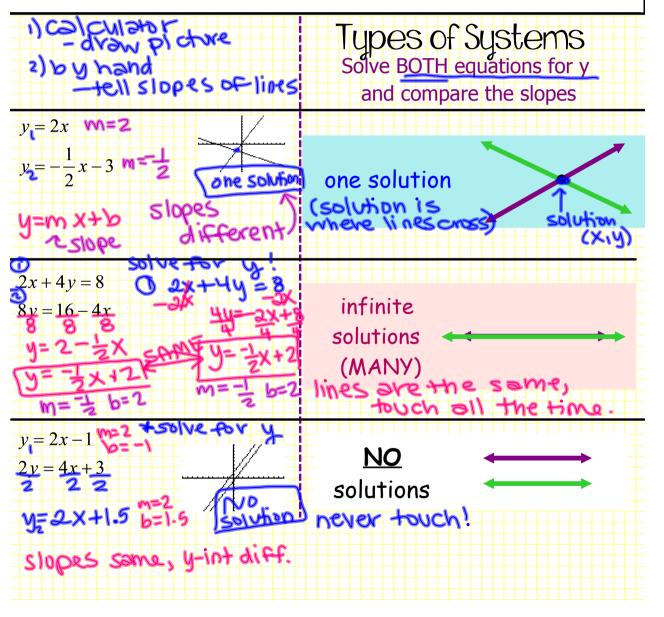
Types of Systems
Solve BOTH equations for y
and compare the slopes

intersecting lines

coincident lines

Parallel lines

Fold blue paper in half. Cut along the dotted lines and cut off the top flap (with an X). Glue onto page 76.



Systems of Equations p. 75

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

3.
$$(5, 2)$$
 yes no $(5, 2)$

$$x \div 3y = 4$$

$$v + 3x = 9$$

$$y = 2x$$

on each the second equation if the first didn't work!

NO WORK, NO CREDIT, NO KIDIONG

Practice - Intro to Systems

No textbook correlation

Name ______ Period _____

Determine if the given point is a solution to the equation.

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

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

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

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

USE COLONDATON? DYONNE

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

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

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

7.
$$x + 2y = 5$$

$$2x + 4y = 2$$

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 find the slope (the number next to x). YOU MUST SHOW WORK!!

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

Need more help? Drop by tutoring!!