Systems of inequalities



Warm-Up

Notes

- Systems of Inequalities

Homework

- Practice (1 page)

Objective:

You will find possible solutions to a system of inequalities.

Warm-Up 00:00 00

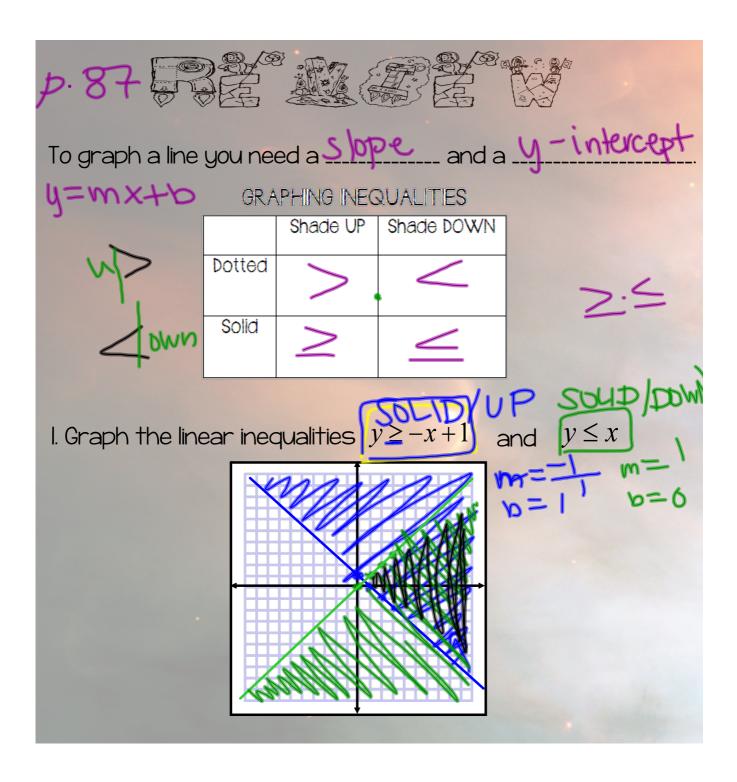


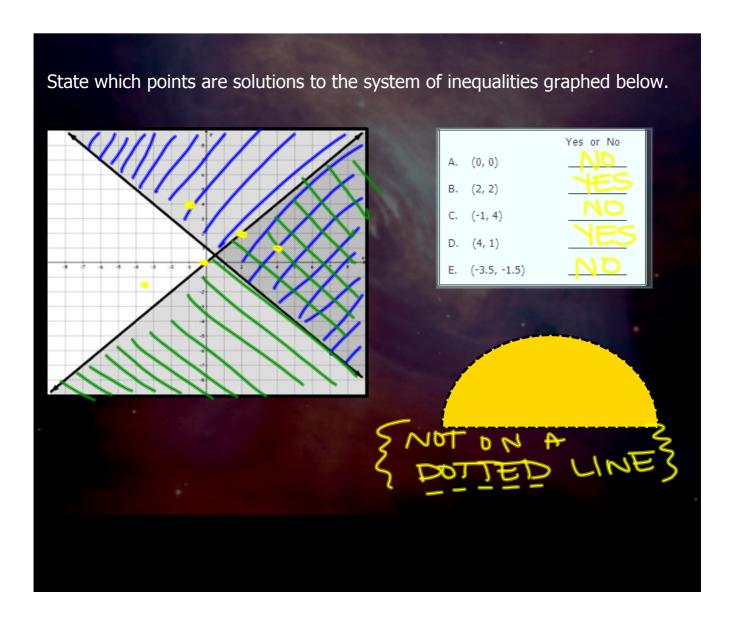
Chris wants to order DVDs over the internet. Each DVD costs \$15.99 and shipping for the order costs \$9.99. Chris has no more than \$100 to spend.

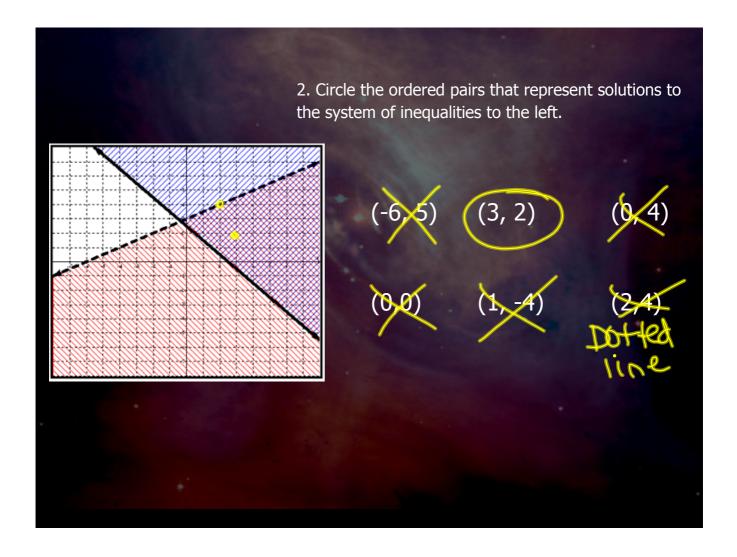
1. Write an inequality that represents Chris' situation.

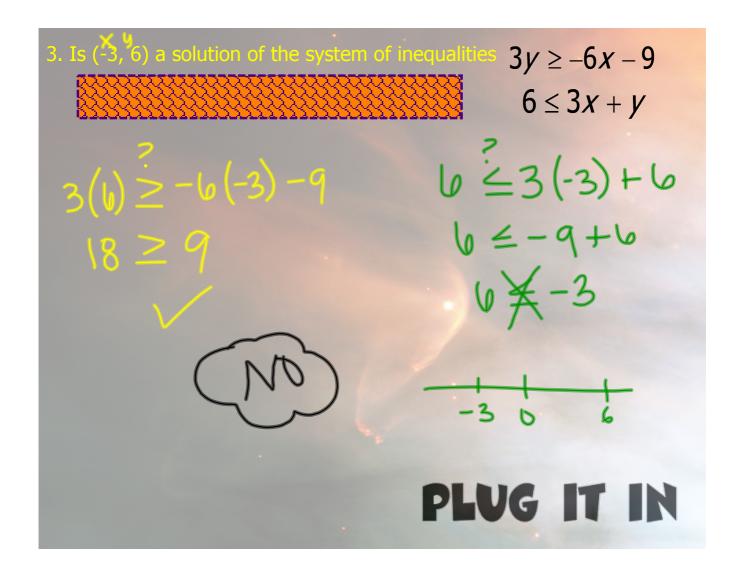
15.99X +9.99

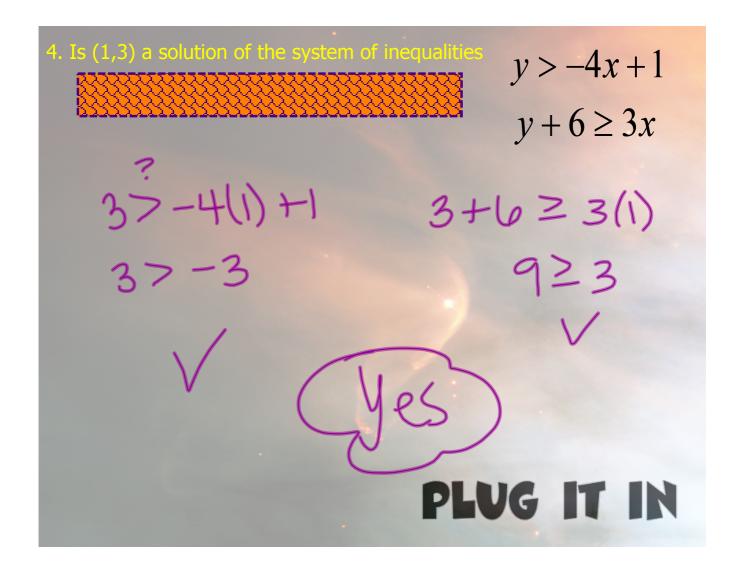
2. How many DVDs can Chris order without exceeding his \$100 limit? Justify your answer mathematically.

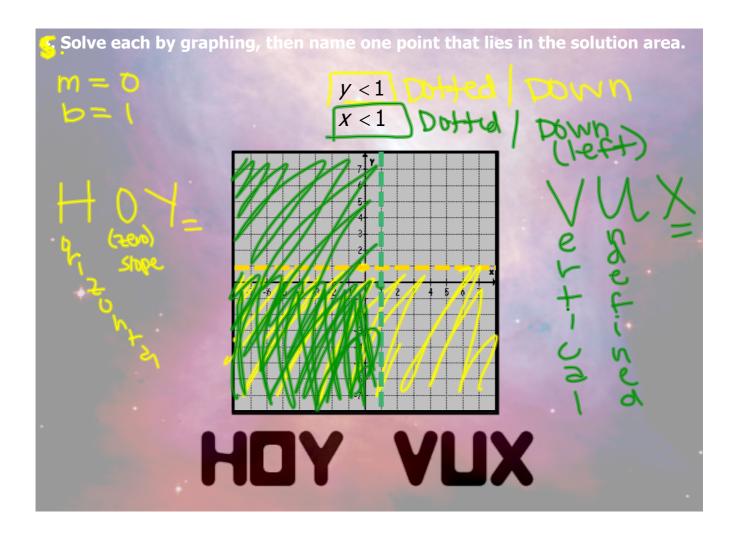


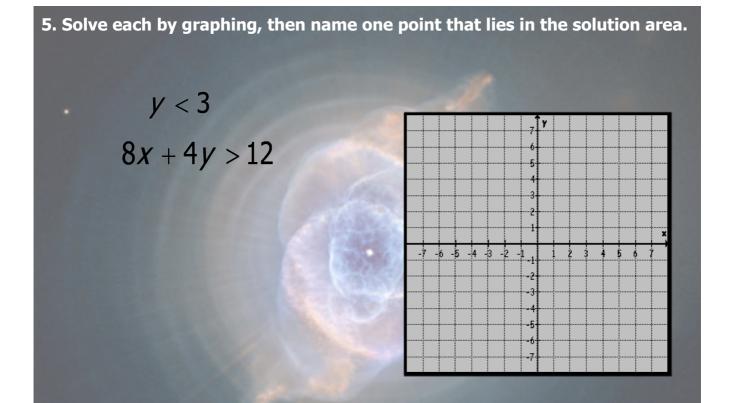


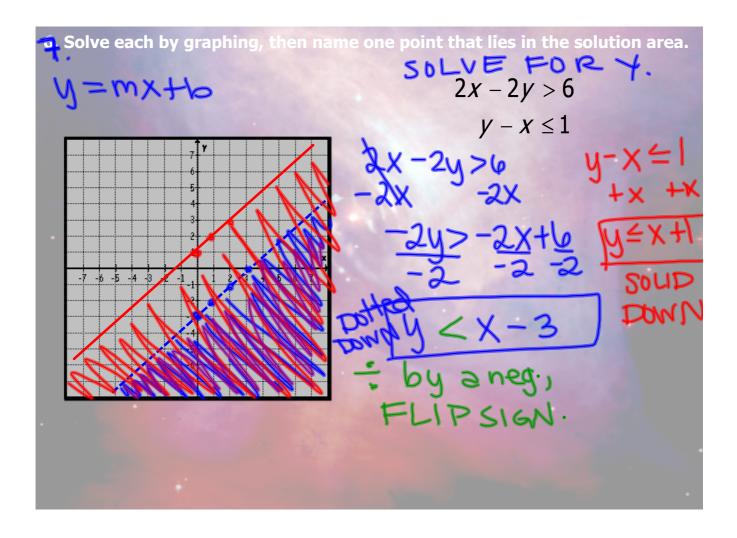












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- Test corrections/Blitz makeups - must be done by THURSDAY
- Test Friday all of unit 6
 possibility to raise your
 first test score
- ALL HW (4.1, 4.2, 4.3,
 4.4, and 4.5) due Friday

Test Averages:

2nd - 72

3rd - 64

4th - 57

5th - 67

7th - 60

If you see an issue with your grade, please make note of it, then turn it back into your period's bin.

Tutoring Availability: Tues/Wed 4:15-5:00PM
Thurs 8:15-9:00 AM

All other times: you must make an appointment (by email)



pp 421-426

•Algebra I - Unit 6: Topic 2

Practice	-Systems	of Inec	ualities

__ Date _____ Period _____

1. State which points are solutions to the system of inequalities graphed below.

,	_

		Yes or No
Α.	(0, 0)	
В.	(-3, 0)	
c.	(-1, -5)	
D.	(1, -2)	
	А. В. С.	A. (0, 0) B. (-3, 0) C. (-1, -5) D. (1, -2)

2. Is (2, -3) a solution of the system of inequalities $8 \ge 2x - y$ and 2y < -4x - 2?

Solve each by graphing, then name one point that lies in the solution area.

3. *y* ≥2*x*

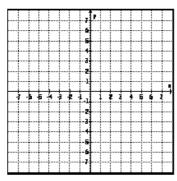
 $x \ge -1$

4. y < x - 1

 $y \le 2x + 1$

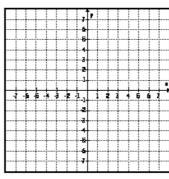
5. *y > x*

 $x-y\geq 3$



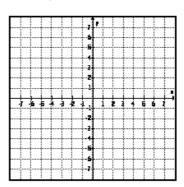
6. $y \ge x + 1$

 $4x + 5y \ge 20$



7. x - 2y > -6

2x +2y ≥ 5



8. $x+y \le 8$

 $\chi \ge 0$

y ≥ 3

