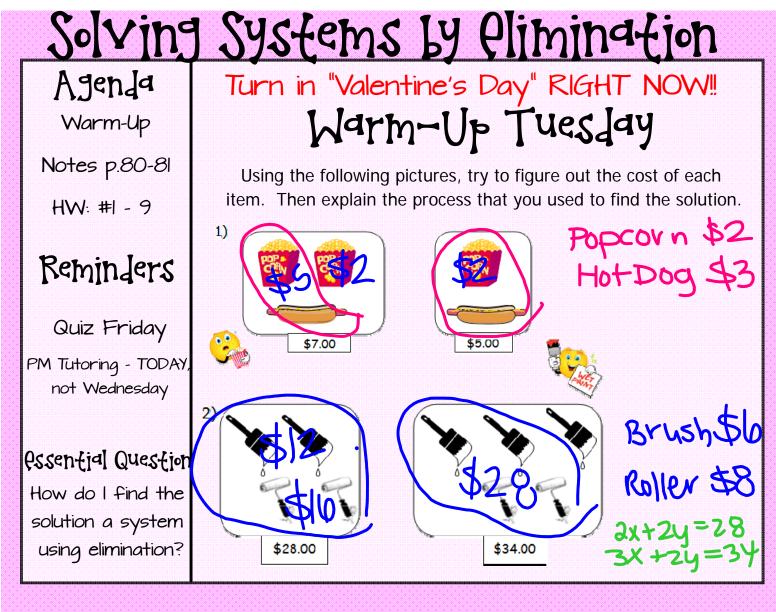
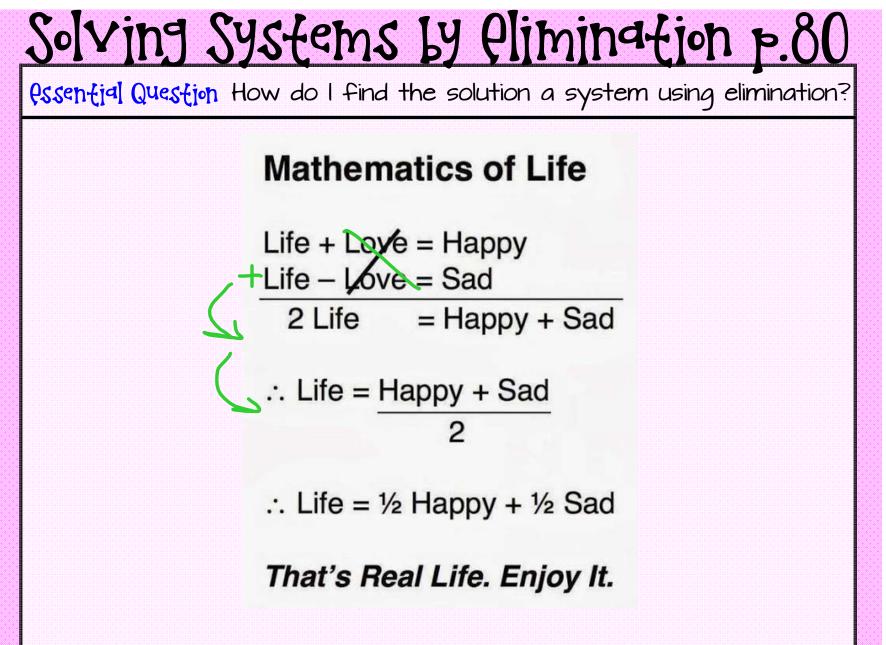
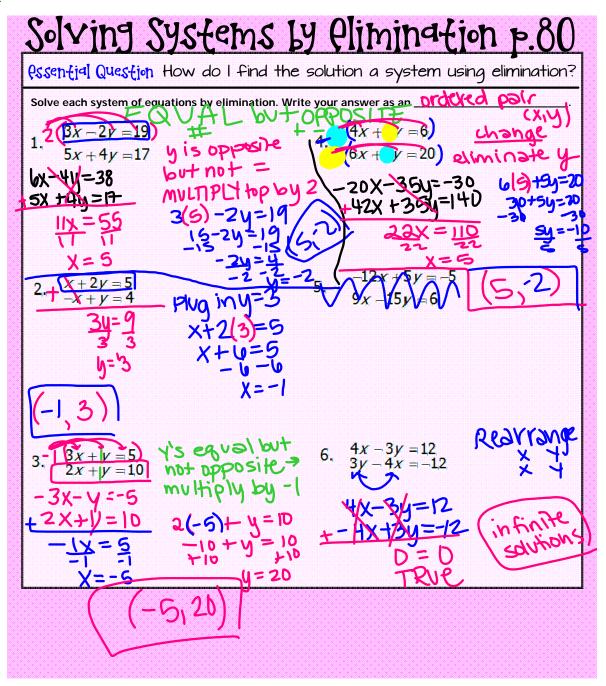
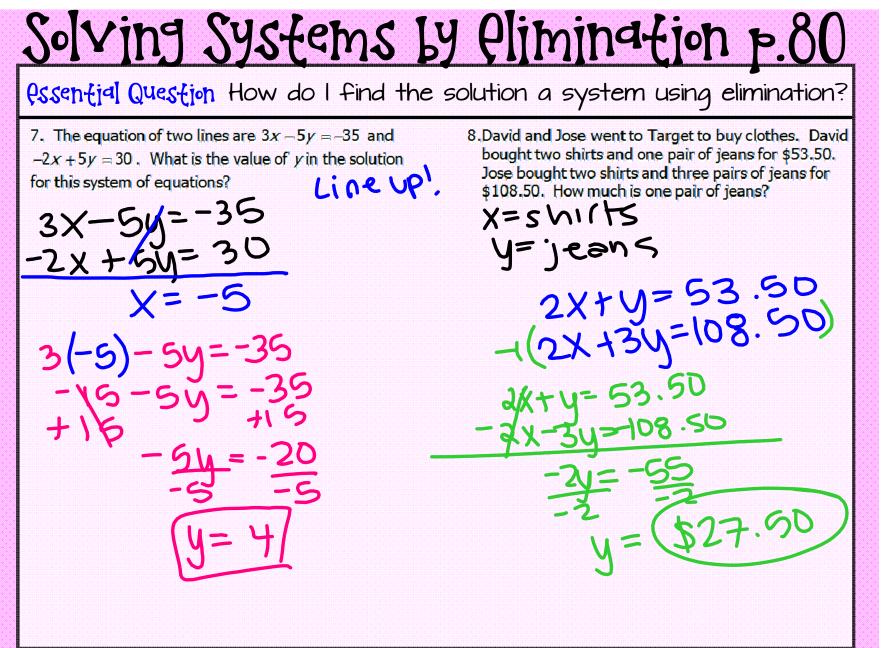
5 Elimination.notebook

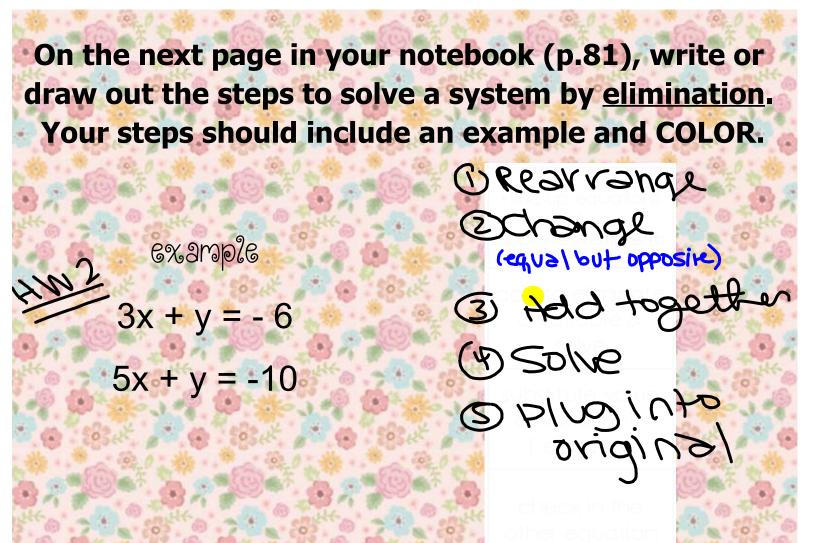






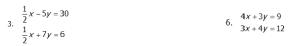
5 Elimination.notebook





Name Solve each system by elimination.	Date			Period
Solve each system by elimination.				
2x + y = 3 1. $-2x + 5y = -9$				
-2x + 5y = -9			5 - 2 - 4	
		4.	5x - 2y = 4 $3x + y = 9$	

2.	3x + y = -6 5x + y = -10	5.	3x - 5y = 13 $x - 2y = 5$
----	-----------------------------	----	---------------------------



Algebra I - Unit 6: Topic 2 - Solving Systems by Elimination

 Three hundred fifty-eight tickets were sold to the school basketball game on Friday. Student tickets were \$1.50 and non-student tickets were \$3.25. The school made \$752.25. How many student and non-student tickets were sold?

Let Statements



- Naomi took a 40-question history exam. The exam only had multiple-choice questions and shortanswer questions. Each multiple-choice question was worth one point; each short-answer question was worth five points; the whole exam was worth 100 points.
- A. Which system of equation could be used to solve for m, the number of multiple-choice questions, and s, the number of short-answer questions?

A	5m + s = 40 $m + s = 100$	C $5 + m = 40$ 5s + m = 100
В	m + s = 40 5m + s = 100	D $5s + m = 40$ s + m = 100

- B. Solve the system that you selected in part A.
- 9. Karrie and Amy were shoulder partners. They both worked the same problem, but got two different answers. Who is incorrect and explain the error they made?

$\begin{array}{c} x + y = -3 \\ 3x + y = 3 \end{array} \longrightarrow$	x + y = -3 -(3x + y = 3)	When she solved for x_i Karrie got $x = 0$		
	$\begin{array}{c} -2x=0\\ x=0 \end{array}$			
Amy: $x + y = -3 \longrightarrow x + y = -3$				
$x + y = -3 \longrightarrow$		When she solved for x , Amy got $x = 3$		
$\begin{array}{c} x + y = -3 \\ 3x + y = 3 \end{array}$	-(3x + y = 3)	When she solved for x , Amy got $x = 3$		

Solving Systems by Plimination HW Help

essential Question How do I find the solution a system using elimination?

- 1. (2, -1). The x's cancel immediately.
- 2. (-2, 0). Change ALL the signs in one equation so that the y's cancel.
- 3. (40, -2). Change ALL the signs in one equation so that the x's cancel.
- 4. (2, 3). Multiply ALL of the 2nd equation by 2 to cancel the y's.
- 5. (1, -2). Multiply ALL of the 2nd equation by -3 to cancel the x's.

6. (0,3). Multiply the top equation by -3 and the bottom equation by 4 to cancel the x's.

7. Let x be students & y be non-students. x + y = 358 and 1.50x+3.25y = 752.25. Multiply the first equation by -1.50 to cancel x's and solve.

- 8. C, 15 short answers and 25 multiple choice
- 9. Try to solve the system yourself!

5 Elimination.notebook