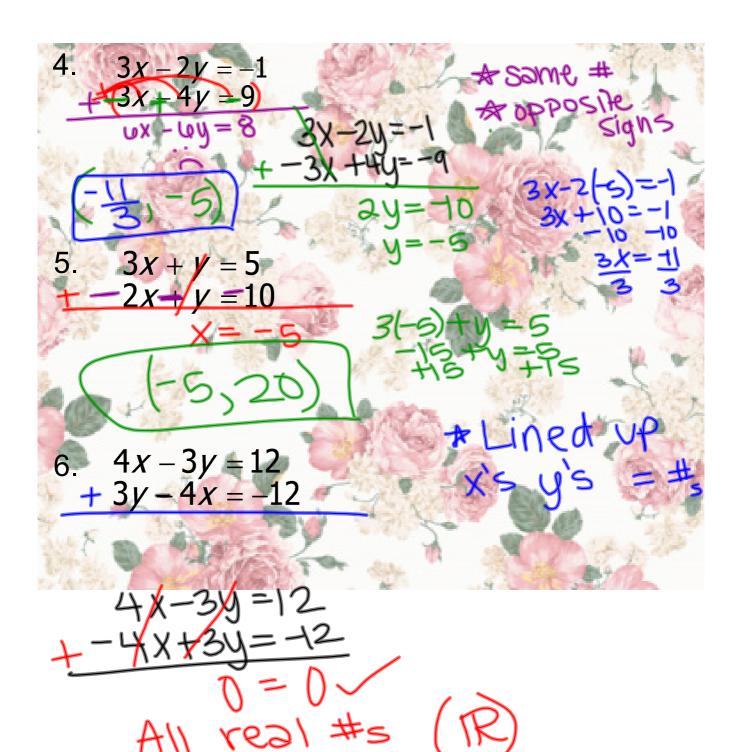


Solve each system of equations by elimination. Write your answer as an bridered point

1.
$$3x - |y| = -2$$
 $+ -2x + |y| = 3$
 $|x| = |$
 $3(|x|) - |y| = -2$
 $-3 - |y| = -3$
 $-3 - |y| = -3$



The equation of two lines are 3x - 5y = -35 and -2x + 5y = 30. What is the value of y in the solution for this system of equations?

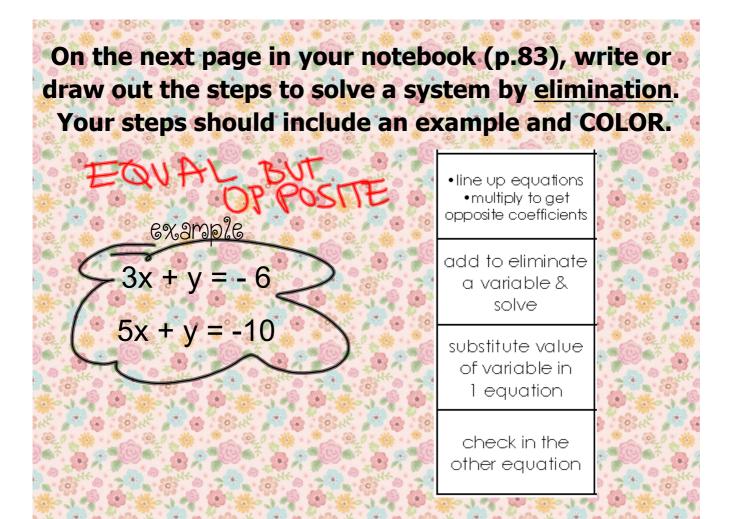
8. David and Jose went to Target to buy clothes. David bought two shirts and one pair of jeans for \$53.50.

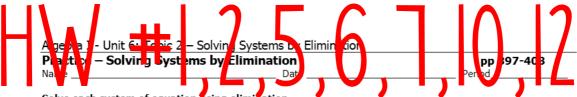
Jose bought two shirts and three pairs of jeans for \$108.50. How much is one pair of jeans?

Let cost of.
Jeans be j.
Let cost of
Shirt be S.

Povid:
$$3.8+1=53.50$$

 $5.50=108.50$
 $-2j=-55$
 $-2=527.50$





Solve each system of equation using elimination. 1. x + y = 5 3x - y = 7

1.
$$x + y = 5$$

 $3x - y = 7$

$$3x + 5y = 0$$

$$-2x + 5y = 25$$

3.
$$2x + y = 3$$
$$-2x + 5y = -9$$

4.
$$\begin{aligned}
-4x + 6y &= -4 \\
4x - 9y &= 5
\end{aligned}$$

Set up and solve using elimination. Show all work!

5. Julie went to the Texas Tornado hockey game and bought two hamburgers and two cokes for \$5.36. Angela bought three hamburgers and two cokes for \$6.85. What is the cost of one hamburger?

| | Let Statements | |
|---|----------------|-----------|
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Answer: (in a complete sentence)

Solve each system of equation using elimination.

6.
$$3x + 8y = -1$$
$$-3x + y = -17$$

7.
$$2x + y = 5$$
$$-2x - y = 8$$

8.
$$3x + y = -6$$
$$5x + y = -10$$

9.
$$\frac{1}{2}x - 5y = 30$$
$$\frac{1}{2}x + 7y = 6$$

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

Solve each system of equation using elimination.

10.
$$4x + 7y = -12$$
$$4x + y = 12$$

11.
$$x + 2y = 15$$

$$5x - 2y = 3$$

- 12. Naomi took a 40-question history exam. The exam only had multiple-choice questions and short-answer 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?

$$\begin{array}{ll}
A & 5m + s = 40 \\
m + s = 100
\end{array}$$

C
$$s + m = 40$$

5 $s + m = 100$

B
$$m + s = 40$$

5 $m + s = 100$

D
$$5s + m = 40$$

 $s + m = 100$

- B. Solve the system that you selected in part A.
- C. Write the meaning of your solution in a complete sentence.

Set up the system of equation ONLY! DO NOT SOLVE!

13. The student council is selling school supplies as a fund raiser. Josh bought four pencils and two ballpoint pens for \$0.74. Zach bought six pencils and five ballpoint pens for \$1.53. Write a system of equations that can be used to find the cost of a pencil and the cost of a ballpoint pen.

Let Statements