

P.S. #5.4 - Solving Systems of Equations by Elimination

Name: _____ Class: _____

Directions: Solve the following systems of equations by elimination. The answers are on the back, which means you must persevere and correct your work!

1.) $x + y = 13$
 $x - y = 3$

2.) $3r - 5s = -35$
 $-2r + 5s = 30$

3.) $4x + y = 9$
 $3x + y = 7$

Check #3



4.) $x - 3y = 7$
 $x + 2y = 2$

5.) $3x + 7y = -1$
 $3x + 12y = 9$

6.) Solve the system of equations using substitution. **Check the answer.**

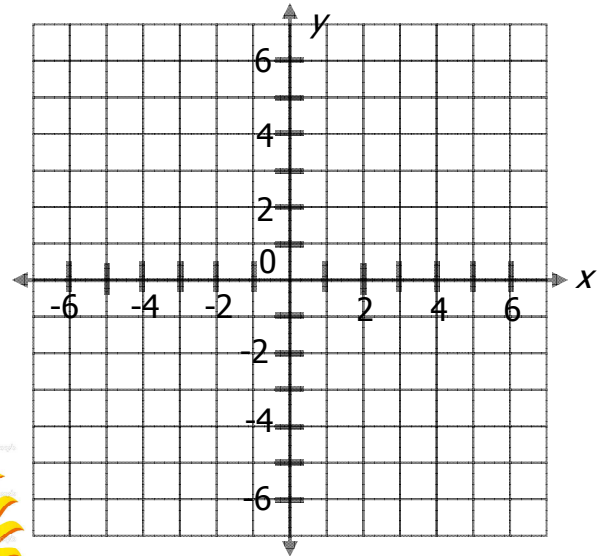
$$3a - 2b = -4$$

$$3a + b = 2$$

7.) Solve the following system of equations graphically.

$$4y + 20 = 6x$$

$$x + y = 5$$



8.) Two consecutive odd integers have a sum of 84. What are the two odd integers? You must solve this algebraically.

9.) Find three consecutive integers such that the sum of twice the second and three times the third is five less than six times the first.

Answers:

- 1.) (8,5) 2.) (-5,4) 3.) (2,1) 4.) (4,-1) 5.) (-5,2) 6.) (0,2) 7.) (4,1) 8.) 41, 42 9.) 13, 14, 15