

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Algebra  
Unit 5  
HW 5-3

1) Solve the following system using the elimination method:

$$4x + 2y = 14$$

$$x - y = -4$$

2) Is  $(3, -1)$  a solution to the following system of equations:  $4x - 3y = 15$

$$3x + 2y = 7$$

3) Solve the following system using the elimination method:  $2x + 4y = 2$

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

4) Solve the following system of equations using whatever method you prefer:

$$2x + y = 6$$

$$x + 5y = -6$$

5) Solve the following system of equations using whatever method you prefer:

$$5x - 2y = 10$$

$$2x + 7y = 43$$

6)

Lilly and Rosie are sisters. The sum of their ages is 19 and the positive difference of their ages is 9. Set up a system of equations involving Lilly's age,  $L$ , and Rosie's age,  $R$ , assuming that Lilly is the older child. Solve the system to find their ages.