

## Week 12 Homework

Date \_\_\_\_\_ Period \_\_\_\_\_

- 1) Perry's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 12 senior citizen tickets and 12 child tickets for a total of \$228. The school took in \$200 on the second day by selling 8 senior citizen tickets and 12 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.
  
- 2) The state fair is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 10 vans and 7 buses with 401 students. High School B rented and filled 10 vans and 1 bus with 203 students. Every van had the same number of students in it as did the buses. How many students can a van carry? How many students can a bus carry?
  
- 3) Kim and Jimmy are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Kim sold 14 packages of tulip bulbs and 13 bags of daffodil bulbs for a total of \$292. Jimmy sold 6 packages of tulip bulbs and 13 bags of daffodil bulbs for a total of \$244. What is the cost each of one package of tulips bulbs and one bag of daffodil bulbs?
  
- 4) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 13 vans and 10 buses with 811 students. High School B rented and filled 13 vans and 5 buses with 516 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

**Solve each system by substitution.**

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

6)  $y = 7x - 7$   
 $y = 3x - 7$

7)  $-6x + 6y = 18$   
 $y = 7$

8)  $-x - 2y = -7$   
 $y = 5$

**Solve each system by elimination.**

9)  $-4x + 4y = 8$   
 $4x - 5y = -1$

10)  $9x - 10y = 8$   
 $7x + 10y = 24$

11)  $-8x - y = 17$   
 $-16x - 3y = 27$

12)  $10x - 2y = -6$   
 $2x - 4y = -12$

13)  $4x - 6y = -12$   
 $9x - 10y = -13$

14)  $-63x - 70y = 9$   
 $90x + 100y = -10$