**Homework: Solving Linear Systems With Three Variables**

Solve each system.

1. ANS:  2. ANS: 

3. ANS: 

Look on the Back!

4. The junior class treasurer is totaling the sales and receipts from the last book sale. She has 50 receipts for sales of three different titles of books priced at $14, $18.50, and $23.25. She has a total of $909 and knows that 22 more of the $18.50 books sold than the $23.25 books. Write the system of equations that can be used to determine how many of each book was sold. DO NOT SOLVE.

5. On a recent trip to the movies, Duane, Marsha, and Parker each purchased snacks. Duane bought two candy bars, a small drink, and two bags of popcorn for a total of $11.85. Marsha spent $9 on a candy bar, two small drinks, and a bag of popcorn. Parker spent $12.35 on two small drinks and three bags of popcorn, but no candy. Write the system of equations that can be used to determine the price of each item. DO NOT SOLVE.

6. John has 15 bills in his wallet that total $145. He has a mix of five-dollar bills, ten-dollar bills, and twenty-dollar bills. The number of ten-dollar bills is one less than twice the number of twenty-dollar bills. Write the system of equations that can be used to determine how many of each type of bill John has. DO NOT SOLVE.