Name

Class Date

Systems with Three Variables

**Solve each system by elimination. Check your answers.**

 1.  2. 3. 

**4.  5.  6. **

**Solve each system by substitution. Check your answers.**

**7.**  **8.  9. **

**10.  11.  12. **

**Solve each system of equations. Check your answers.**

**13.  14. **

**Write and solve a system of equations for each problem.**

**15.** Monica has $1, $5, and $10 bills in her wallet that are worth $96. If she had one more $1 bill, she would have just as many $1 bills as $5 and $10 bills combined. She has 23 bills total. How many of each denomination does she have?

**16.** The sum of three numbers is −2. The sum of three times the first number, twice the second number, and the third number is 9. The difference between the second number and half the third number is 10. Find the numbers.