Algebra 2   Name_____

Elimination Worksheet #1

Solve each system by elimination.

1) $2x + 6y = -6$
   $10x - 6y = 6$

2) $-8x - 4y = 4$
   $8x + y = 5$

3) $2x + 6y = -22$
   $-7x - 6y = 2$

4) $9x - 4y = -8$
   $-9x + y = 2$

5) $-9x - 2y = 15$
   $-3x - 2y = 9$

6) $-4x - y = -21$
   $2x - y = 15$

7) $-6x - 4y = -8$
   $-6x - 6y = -24$

8) $-4x + 2y = 8$
   $7x + 2y = 19$

9) The school that Joe goes to is selling tickets to a play. On the first day of ticket sales the school sold 8 adult tickets and 5 child tickets for a total of $89. The school took in $101 on the second day by selling 12 adult tickets and 5 child tickets. Find the price of an adult ticket and the price of a child ticket.

10) Brenda and Beth each improved their yards by planting hostas and ornamental grass. They bought their supplies from the same store. Brenda spent $133 on 8 hostas and 11 bunches of ornamental grass. Beth spent $154 on 8 hostas and 14 bunches of ornamental grass. What is the cost of one hosta and the cost of one bunch of ornamental grass?

11) Kim and Krystal each improved their yards by planting hostas and geraniums. They bought their supplies from the same store. Kim spent $133 on 3 hostas and 14 geraniums. Krystal spent $175 on 9 hostas and 14 geraniums. Find the cost of one hosta and the cost of one geranium.

12) Chelsea and Jill are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of shiny wrapping paper. Chelsea sold 11 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of $210. Jill sold 9 rolls of plain wrapping paper and 8 rolls of shiny wrapping paper for a total of $198. Find the cost each of one roll of plain wrapping paper and one roll of shiny wrapping paper.