Algebra 1-Adding or Subtracting Name_____ ID: 1

6.3 Solving Systems using the Elimination HW-1

Date_____ Period____

Solve each system using Addition.

1) $9x - 9y = 0$
$9x + 9y = 18$

2) $-4x + 9y = -7$
$4x - y = -17$

3) $-4x + 10y = -4$
$4x - 8y = 0$

4) $4x - y = 0$
$10x + y = 28$

Solve each system using Substraction

5) $-3x - 9y = -9$
$-3x + 5y = -23$

6) $-7x + 7y = 14$
$-6x + 7y = 9$

7) $-2x - 3y = -28$
$x - 3y = -22$

8) $-2x - 6y = 16$
$-5x - 6y = 22$

Solve each system by arranging like terms in standard form first. Ax+By=C

9) $0 = -9y - 12 + 2x$
$-4 = 2x - y$

10) $0 = 4x - 4y - 60$
$\frac{1}{3}x = -1 - \frac{2}{3}y$

11) $8y = -7x + 19$
$8y + 6 = -2x$

12) $29 + 10x = 3y$
$6y + 2 = -10x$

Solve the story problem
1. Write a system of equations.
2. Solve the system of equations using elimination method.

13) Kali's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 1 adult ticket and 2 student tickets for a total of $16. The school took in $36 on the second day by selling 1 adult ticket and 6 student tickets. Find the price of an adult ticket and the price of a student ticket.