S3 Solving Systems of 2 Equations

Date_____ Period____

Solve each system by elimination.

1) $-10x + 9y = 15$
$20x - 6y = 30$

2) $-3x - 3y = -24$
$-6x - 6y = 12$

3) $-\frac{8}{5}x - \frac{9}{5}y = 5$
$-5x - 5y = 10$

4) $-\frac{10}{3}x + \frac{4}{3}y = -4$
$7x - 9y = -4$

5) $-18x + 5y = 28$
$9x + 7y = 5$

6) $8x - 10y = -6$
$-16x + 20y = 12$

7) Mei's school is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 senior citizen ticket and 12 child tickets for a total of $146. The school took in $108 on the second day by selling 3 senior citizen tickets and 6 child tickets. What is the price each of one senior citizen ticket and one child ticket?

8) The senior classes at High School A and High School B planned separate trips to the water park. The senior class at High School A rented and filled 7 vans and 9 buses with 560 students. High School B rented and filled 14 vans and 1 bus with 168 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.