

Elimination - Multiply Twice WS

Solve each system by elimination.

1)
$$\begin{aligned} 80x + 24y &= -16 \\ -100x - 30y &= 30 \end{aligned}$$

2)
$$\begin{aligned} 6x - 7y &= 26 \\ 5x - 6y &= 23 \end{aligned}$$

3)
$$\begin{aligned} 5x - 5y &= -20 \\ -9x - 7y &= 20 \end{aligned}$$

- 4) The senior classes at High School A and High School B planned separate trips to the county fair. The senior class at High School A rented and filled 9 vans and 7 buses with 274 students. High School B rented and filled 13 vans and 10 buses with 393 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.
- 5) The school that Jenny goes to is selling tickets to a fall musical. On the first day of ticket sales the school sold 5 adult tickets and 9 student tickets for a total of \$190. The school took in \$186 on the second day by selling 6 adult tickets and 8 student tickets. What is the price each of one adult ticket and one student ticket?