Solve the system of equations by using any method you want.

1) $\left\{\begin{array}{c}4 x+3 y=1 \\ x=1-y\end{array}\right.$
2) $\left\{\begin{array}{c}2 x-y=6 \\ -x+y=-1\end{array}\right.$
3) $\left\{\begin{array}{l}y=2 x-4 \\ y=\frac{1}{4} x+3\end{array}\right.$
4) $\left\{\begin{array}{c}6 x-y=3 \\ 4 x-2 y=-2\end{array}\right.$
5) $\left\{\begin{array}{l}y=-x+2 \\ y=\frac{1}{3} x-2\end{array}\right.$
6) $\left\{\begin{array}{c}2 x+3 y=7 \\ x=1-4 y\end{array}\right.$
7) $\left\{\begin{array}{c}y=x+2 \\ y=-\frac{2}{3} x-3\end{array}\right.$
8) $\left\{\begin{array}{c}2 x+3 y=6 \\ x-3 y=-15\end{array}\right.$
9) $\left\{\begin{array}{c}7 x-5 y=4 \\ y=3 x-4\end{array}\right.$
10) Stefan's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 14 senior citizen tickets and 12 child tickets for a total of $\$ 220$. The school took in $\$ 65$ on the second day by selling 7 senior citizen tickets and 1 child ticket. Find the price of a senior citizen ticket and the price of a child ticket.
11) The length of a rectangle is 8 inches more than the width. The perimeter of a rectangle is 56 inches. Write and solve a system of linear equations to find the length and width of a rectangle.
12) 

The school that Mary goes to is selling tickets to the annual dance competition. On the first day of ticket sales the school sold 1 senior citizen ticket and 6 student tickets for a total of $\$ 58$. The school took in $\$ 140$ on the second day by selling 8 senior citizen tickets and 12 student tickets. What is the price each of one senior citizen ticket and one student ticket?

