Test 2 | Systèmes d'équations

Le Châtelard

solution simple	solution indéterminée	solution impossible
$x = 0$	$0 = 0$	$0 = 1$
↓	↓	↓
$x = 0$	$S \subset \mathbb{R}^2$	$S = \emptyset$

Solve the following systems of equations, showing a complete (and correct!) procedure :

a)
$$\begin{cases} 2x - y = 6 \\ x + y = 6 \end{cases}$$

b)
$$\begin{cases} 2x - 3y = 0 \\ 3x + y = 0 \end{cases}$$

c)
$$\begin{cases} 2x - 3y = 13 \\ 4x + 3y = -1 \end{cases}$$

d)
$$\begin{cases} 3x - 5y = 6 \\ 3x + 4y = -3 \end{cases}$$

e) $\begin{cases} 7x - 2y = 8 \\ 5x - 3y = 1 \end{cases}$

f) $\begin{cases} 2x - y = 5 \\ 3x + y = 10 \end{cases}$

g) $\begin{cases} 2x - 3y = -1 \\ x + 4y = 5 \end{cases}$

h) $\begin{cases} x + 4y = 3 \\ 4x + 2y = 5 \end{cases}$

i) $\begin{cases} 2x - 7y = 6 \\ x + 7y = 6 \end{cases}$

j) $\begin{cases} 7x - 5y = -2 \\ 2x + 3y = -5 \end{cases}$