

Name _____

Date _____

Year Group _____

Fill out the steps to solve the system

$$1. \begin{cases} 8x + 14y = 4 \\ -6x - 7y = -10 \end{cases} \Rightarrow \begin{cases} 8x + 14y = 4 \\ \frac{\quad}{\times 2}x - \frac{\quad}{\times 2}y = \frac{\quad}{\times 2} \end{cases}$$

Steps =>
$$\begin{array}{r} 8x + 14y = 4 \\ + \quad \frac{\quad}{\times 2}x - \frac{\quad}{\times 2}y = \frac{\quad}{\times 2} \\ \hline \quad \quad x + \quad \quad y = \quad \end{array}$$

Steps => $\quad \quad x = \quad$

Steps => $x = \quad$

Substitute to solve for y

Steps => $8 * (\quad) + 14y = 4$

Steps => $\quad + 14y = 4$

Steps => $14y = \quad$

Steps => $y = \quad$

Answer => $(\quad, \quad)$

Solve the system (Leave answer as an improper fraction)

$$2. \begin{cases} 2x + 5y = 3 \\ 5x - 3y = -8 \end{cases}$$

Answer => $(\quad, \quad)$

$$3. \begin{cases} 10x - 8y = 8 \\ 5x - 2y = -18 \end{cases}$$

Answer => $(\quad, \quad)$

$$4. \begin{cases} 2x + 8y = 7 \\ 3x - 5y = 4 \end{cases}$$

Answer => $(\quad, \quad)$