

①

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

$$\begin{array}{r} -2x + 4y = 3 \\ -4(3x + y = -1) \\ \hline \end{array}$$

$$-14x + 0 = 7$$

$$-14x = 7$$

$$\boxed{x = -\frac{1}{2}}$$

$$3x + y = -1$$

$$-\frac{3}{2} + y = -1$$

$$\boxed{y = \frac{1}{2}}$$

Check

$$-2x + 4y = -2\left(-\frac{1}{2}\right) + 4\left(\frac{1}{2}\right) = 1 + 2 = 3 \checkmark$$

$$3x + y = 3\left(-\frac{1}{2}\right) + \frac{1}{2} = -\frac{3}{2} + \frac{1}{2} = -1 \checkmark$$

②

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

$$\begin{array}{r} 6(2x - 5y = 2) \\ -4(3x + 2y = 1) \\ \hline \end{array} \quad \begin{array}{l} 12 - 4 \\ 12 - 4 \end{array}$$

$$0 - 38y = 8$$

$$\boxed{y = -\frac{8}{38} = -\frac{4}{19}}$$

$$3x + 2y = 1$$

$$3x + 2\left(-\frac{4}{19}\right) = 1$$

$$3x - \frac{8}{19} = 1$$

$$3x = \frac{27}{19}$$

$$\boxed{x = \frac{9}{19}}$$

Check

$$2x - 5y = 2\left(\frac{9}{19}\right) - 5\left(-\frac{4}{19}\right) = \frac{18}{19} + \frac{20}{19} = 2 \checkmark$$

$$3x + 2y = 3\left(\frac{9}{19}\right) + 2\left(-\frac{4}{19}\right) = \frac{27}{19} - \frac{8}{19} = 1 \checkmark$$