

- |                             |                  |                                       |
|-----------------------------|------------------|---------------------------------------|
| 1) $\{(5, 2)\}$             | 5) $\{(-2, 2)\}$ | 9) $\{(3, -2)\}$                      |
| 2) $\{(6, -1)\}$            | 6) $\{(7, -2)\}$ | 10) $\{(-10, 3)\}$                    |
| 3) $\{(3, -\frac{7}{2})\}$  | 7) $\{(0, -4)\}$ | 11) $\{(\frac{2}{3}, -\frac{1}{3})\}$ |
| 4) $\{(\frac{37}{3}, -4)\}$ | 8) $\{(5, 1)\}$  | 12) $\{(\frac{4}{9}, -\frac{3}{5})\}$ |

$$\begin{array}{r} 1) \quad x+y=6 \\ + \quad x-y=2 \\ \hline 2x = 8 \\ 2x = 8 \\ \hline x = 4 \end{array}$$

$$\begin{array}{r} (4) + y = 6 \\ 4 - 4 + y = 6 - 4 \\ y = 2 \end{array}$$

$$\{(4, 2)\}$$

$$\begin{array}{r} 7) \quad 6x - 7y = 14 \\ + \quad -6x + 3y = -6 \\ \hline -4y = 8 \\ -4y = 8 \\ \hline y = -2 \end{array}$$

$$\begin{array}{r} 6x - 7(-2) = 14 \\ 6x + 14 = 14 \\ 6x + 14 - 14 = 14 - 14 \\ \frac{6x}{6} = \frac{0}{6} \\ x = 0 \end{array}$$

$$\{(0, -2)\}$$

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

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

WS 9-4  
1-18a11

$$\{(1, 3)\}$$

$$\begin{array}{r} 12) \quad 9y + 5z = 1 \\ -9y - 10z = 2 \\ \hline -5z = 3 \\ -5z = 3 \\ \hline z = -\frac{3}{5} \end{array}$$

$$\begin{array}{r} 9y + 5(-\frac{3}{5}) = 1 \\ 9y - 3 = 1 \\ 9y - 3 + 3 = 1 + 3 \\ \frac{9y}{9} = \frac{4}{9} \\ y = \frac{4}{9} \end{array}$$

$$\{(\frac{4}{9}, -\frac{3}{5})\}$$