

Simultaneous equation

Solve for x and y the following equations.

$$\begin{array}{r} 1. \quad 3x - y = 1 \\ \underline{x + y = 3} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 2. \quad 2x - y = 10 \\ \underline{3x + y = 10} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 3. \quad 2x + y = 7 \\ \underline{x + y = 4} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 4. \quad 4x + y = 9 \\ \underline{2x - y = 3} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 5. \quad x + 2y = 13 \\ \underline{x + 4y = 21} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 6. \quad 5x + 2y = 13 \\ \underline{3x + 2y = 3} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 7. \quad 2x - y = 1 \\ \underline{3x + y = 9} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 8. \quad 3x + 7y = -2 \\ \underline{4x + 3y = -9} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 9. \quad -3x + 2y = 5 \\ \underline{4x + 3y = -1} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 10. \quad 3x + 2y = 6 \\ \underline{x - 2y = 6} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 11. \quad 2x + 3y = 8 \\ \underline{2x + y = -4} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 12. \quad 5x + 2y = 11 \\ \underline{3x - 4y = 4} \end{array}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

Solve for x and y the following equations using substitution method

$$13. \quad 2x + 3y = 14$$
$$\underline{8x - 5y = 5}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$14. \quad 3x + 4y = 5$$
$$\underline{-2x + 5y = 12}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$15. \quad x + y = 5$$
$$\underline{5x - 3y = 1}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$16. \quad 2x + 3y = 8$$
$$\underline{3x + 2y = 6}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$17. \quad 3x + y = 9$$
$$\underline{x - 2y = 10}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$18. \quad 9x = 4y - 20$$
$$\underline{5x = 6y - 13}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$19. \quad 3x + 4y = 6$$
$$\underline{3y = 7 - x}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$

$$20. \quad 2x + y = 10$$
$$\underline{y = 3x}$$

$$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$$