

# 2.5

# Simultaneous

# Equations

*Mr Faruk*

Teacher of Mathematics  
BSc/MSc/PGCE Mathematics

✉ [cieigcsolutions@gmail.com](mailto:cieigcsolutions@gmail.com)



23 Solve the simultaneous equations

$$\begin{aligned}x + y &= 15 \\7x - 5y &= 3\end{aligned}$$

Show clear algebraic working.

$x = \dots\dots\dots$

$y = \dots\dots\dots$

25 Solve

$$\begin{aligned}3x + 2y &= 15 \\10x - 4y &= 2\end{aligned}$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

(Total for Question 25 is 3 marks)

23 Solve the simultaneous equations

$$4x + 5y = 4$$

$$2x - y = 9$$

Show clear algebraic working.

$$x =$$

$$y =$$

---

(Total for Question 23 is 3 marks)

23 Solve the simultaneous equations

$$4x + 2y = 9$$

$$x - 4y = 9$$

Show clear algebraic working.

$$x =$$

$$y =$$

---

(Total for Question 23 is 3 marks)

**20** Solve the simultaneous equations

$$\begin{aligned}x + 2y &= -0.5 \\3x - y &= 16\end{aligned}$$

Show clear algebraic working.

$x = \dots\dots\dots$

$y = \dots\dots\dots$

---

**(Total for Question 20 is 3 marks)**

21 Solve the simultaneous equations

$$\begin{aligned}3x + 5y &= 6 \\7x - 5y &= -11\end{aligned}$$

Show clear algebraic working.

$x =$  .....

$y =$  .....

---

(Total for Question 21 is 3 marks)

21

(c) Solve the simultaneous equations

$$\begin{aligned}4x + 3y &= 17 \\ x + 2y &= 5\end{aligned}$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

(3)

22 Solve the simultaneous equations

$$5a + 2c = 10$$

$$2a - 4c = 7$$

Show clear algebraic working.

$$a = \dots\dots\dots$$

$$c = \dots\dots\dots$$

---

(Total for Question 22 is 3 marks)

25 Solve the simultaneous equations

$$3x + 5y = 3.1$$

$$6x + 3y = 3.75$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

(Total for Question 25 is 3 marks)

**26** Solve the simultaneous equations

$$7x + 3y = 3$$

$$3x - y = 7$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

(Total for Question 26 is 3 marks)

**22** Solve the simultaneous equations

$$5x + 4y = -2$$

$$2x - y = 4.4$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

**(Total for Question 22 is 3 marks)**

21 Solve the simultaneous equations

$$\begin{aligned}x + 2y &= 15 \\4x - 6y &= 4\end{aligned}$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

(Total for Question 21 is 3 marks)

24 Solve the simultaneous equations

$$2x + 9y = 14.5$$

$$7x + 3y = 8$$

Show clear algebraic working.

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots$$

---

(Total for Question 24 is 3 marks)