Simultaneous Equation IGCSE Past Paper Questions Edexcel - Calculator

1.

Solve the simultaneous equations

$$3x + y = 13$$
$$x - 2y = 9$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question is 3 marks)

2.

Solve the simultaneous equations

$$x + y = 15$$
$$7x - 5y = 3$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 2 is 3 marks)

3.

Solve the simultaneous equations.

$$5x - 2y = 9.5$$
$$4x + 2y = 13$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question s 3 marks)

4.

Solve $4x + 3y = 6$

$3x + 5y = -1$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 1 is 4 marks)

5.

Solve the simultaneous equations

$3x + 2y = 7$

$4x - 3y = 15$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 15 is 4 marks)

6.

(a) Solve the simultaneous equations

$$5x + 3y = 9$$
$$7x - 2y = 25$$

Show clear algebraic working.

$x = $ ....

$y = $ ....

(4)

(b) P is the point of intersection of the lines with equations $5x + 3y = 9$ and $7x - 2y = 25$

Write down the coordinates of P.

(............... , ...)

(1)

(Total for Question ⬚ is 5 marks)

7.

Showing clear algebraic working, solve the simultaneous equations

$$3a + 2b = 1$$
$$a + 2b = 5$$

$a = $ ....

$b = $ ....

(Total for Question 7 is 3 marks)

8.

Solve the simultaneous equations

$$4x + 5y = 4$$
$$2x - y = 9$$

Show clear algebraic working.

$x =$

$y =$

(Total for Question 9 is 3 marks)

9.

Solve the simultaneous equations

$$y + 2x = 3$$
$$x^2 + y^2 = 18$$

Show clear algebraic working.

(Total for Question 22 is 6 marks)

10.

Solve the simultaneous equations

$$5x - 2y = 33$$
$$5x + 8y = 18$$

Show clear algebraic working.

$x =$ ....

$y =$ ....

(Total for Question 10 is 3 marks)