

16 Solve the simultaneous equations

$$\begin{aligned}3xy - y^2 &= 8 \\x - 2y &= 1\end{aligned}$$

Show clear algebraic working.

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(Total for Question 16 is 5 marks)



17 Solve the simultaneous equations

$$\begin{aligned}x - 6y &= 5 \\xy - 2y^2 &= 6\end{aligned}$$

Show clear algebraic working.

(Total for Question 17 is 5 marks)



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18 Solve the simultaneous equations

$$2x^2 + 3y^2 = 14$$

$$x = 2y - 3$$

Show clear algebraic working.

(Total for Question 18 is 5 marks)



P 5 9 0 1 4 A 0 1 7 2 4

19 Solve the simultaneous equations

$$\begin{aligned}y &= 3 - 2x \\x^2 + y^2 &= 18\end{aligned}$$

Show clear algebraic working.

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(Total for Question 19 is 5 marks)



19 Solve the simultaneous equations

$$\begin{aligned}3x^2 + y^2 - xy &= 5 \\y &= 2x - 3\end{aligned}$$

Show clear algebraic working.

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(Total for Question 19 is 5 marks)



19 Solve the simultaneous equations

$$\begin{aligned}x^2 - 9y - x &= 2y^2 - 12 \\x + 2y - 1 &= 0\end{aligned}$$

Show clear algebraic working.

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(Total for Question 19 is 5 marks)



20 Solve the simultaneous equations

$$\begin{aligned}y &= 7 - 2x \\x^2 + y^2 &= 34\end{aligned}$$

Show clear algebraic working.

(Total for Question 20 is 5 marks)



P 7 2 4 4 3 A 0 1 9 2 8

21 Solve the simultaneous equations

$$\begin{aligned}2x^2 + 3y^2 &= 11 \\x &= 3y - 1\end{aligned}$$

Show clear algebraic working.

(Total for Question 21 is 5 marks)



21 Solve the simultaneous equations

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

Show clear algebraic working.

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(Total for Question 21 is 5 marks)



22 Solve the simultaneous equations

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

$$x + 2 = y$$

Show clear algebraic working.

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(Total for Question 22 is 5 marks)



22 Solve the simultaneous equations

$$\begin{aligned}x^2 + y^2 &= y + 11 \\y &= 3x - 1\end{aligned}$$

Show clear algebraic working.

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(Total for Question 22 is 5 marks)



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22 Solve the simultaneous equations

$$2x^2 + 3y^2 = 5$$

$$y = 2x + 1$$

Show clear algebraic working.

(Total for Question 22 is 5 marks)



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22 Solve the simultaneous equations

$$\begin{aligned}2y^2 + x^2 &= -6x + 42 \\2x + y &= -3\end{aligned}$$

Show clear algebraic working.

(Total for Question 22 is 5 marks)

