

Write your name here

Surname

Other names

In the style of:

Edexcel GCSE

Centre Number

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Candidate Number

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Mathematics A

Simultaneous Equations

Higher Tier

Past Paper Style Questions
Arranged by Topic

Paper Reference

1MA0/1H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators must not be used.**



Information

- The total mark for this paper is 100
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►



1. Solve the simultaneous equations

$$3x + 2y = 8$$

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

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

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

(Total 4 marks)



2. Solve the simultaneous equations

$$6x + 2y = -3$$

$$4x - 3y = 11$$

$x = \dots\dots\dots, y = \dots\dots\dots$

(Total 4 marks)



3. Solve the simultaneous equations

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

$$y = 3x + 1$$

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

$$\text{or } x = \dots\dots\dots y = \dots\dots\dots$$

(Total 6 marks)



4. Solve the simultaneous equations

$$4x + y = -1$$

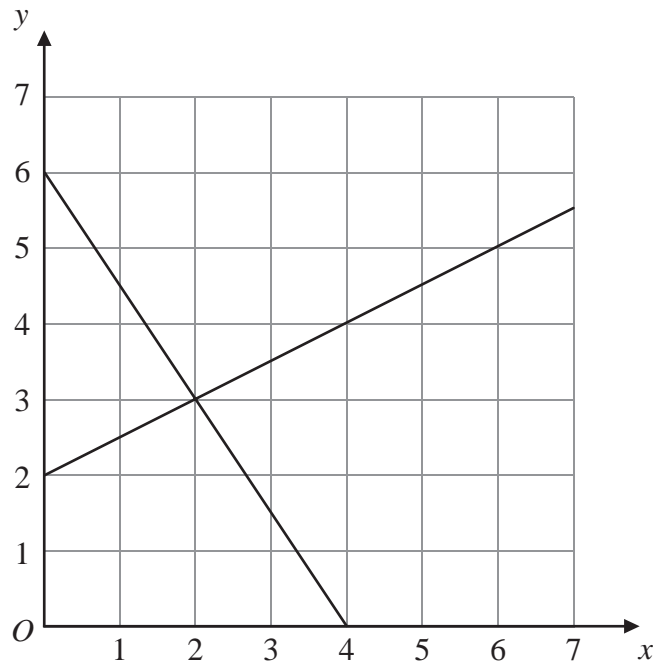
$$4x - 3y = 7$$

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

(Total 3 marks)



5.



The diagram shows graphs of $y = \frac{1}{2}x + 2$

and $2y + 3x = 12$

(a) Use the diagram to solve the simultaneous equations

$$y = \frac{1}{2}x + 2$$

$$2y + 3x = 12$$

$x = \dots\dots\dots$ $y = \dots\dots\dots$
(1)

(b) Find an equation of the straight line which is parallel to the line $y = \frac{1}{2}x + 2$ and passes through the point (0, 4).

$\dots\dots\dots$
(2)

(Total 3 marks)



8. Solve the simultaneous equations

$$6x + 2y = -3$$

$$4x - 3y = 11$$

$x = \dots\dots\dots$, $y = \dots\dots\dots$

(Total 4 marks)



9. Solve the simultaneous equations

$$4x + y = 10$$

$$2x - 3y = 19$$

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

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

(Total 3 marks)

