

$$y = mx + c$$

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

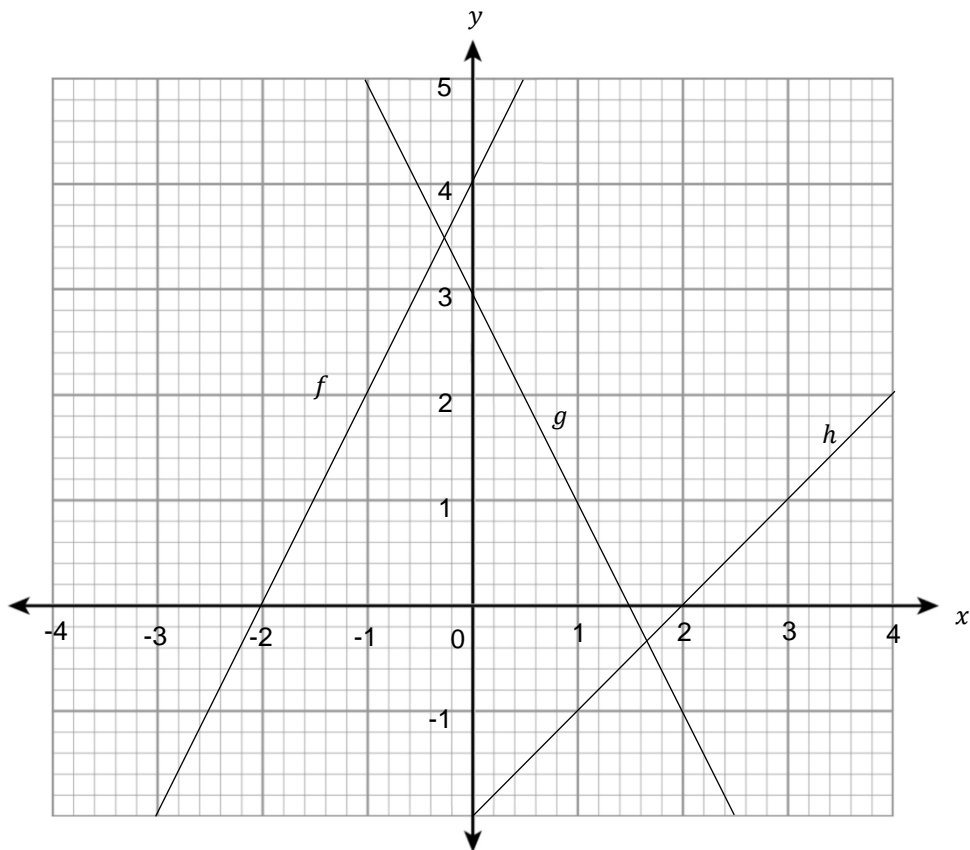
Advice

- In all calculations, show clearly how you work out your answer.

1

Find the equations of the three lines f , g and h shown on the graph below.

(Level 4)



[3 marks]

$$f = \underline{\hspace{10em}}$$

$$g = \underline{\hspace{10em}}$$

$$h = \underline{\hspace{10em}}$$

Turn over for next question

Turn over ►

2(a) Find the equation of the line AB where,

(Level 5)

$$A = (5,10) \quad B = (11,22)$$

Give your answer in the form $y = mx + c$.

[2 marks]

Answer _____

2(b) Find the equation of the line CD where,

$$C = (-2, -7) \quad D = (-14, -11)$$

Give your answer in the form $y = mx + c$.

[2 marks]

Answer _____



MathsMadeEasy Revision App

- ✓ Video revision for every GCSE Maths topic
- ✓ Thousands of practice questions
- ✓ Online Mock Exams with video solutions

Try it now at mme.la/app or scan the barcode



- 3(a)** In each of the following cases, find the gradient of the straight line by rearranging the equation. (Level 5)

$$y - 3 = 4(x - 2)$$

[2 marks]

Answer _____

- 3(b)** $3y - 2 = 5x + 2$

[2 marks]

Answer _____

- 3(c)** $\frac{2(3 - 5x)}{y} = 3$

[2 marks]

Answer _____

Turn over for next question

4 From the equations below, find two pairs of equations which have the same gradient. (Level 6)

A	$y = 2x + 3$
B	$y = 4 - 2x$
C	$-2x - y = 4$

D	$-2x + y = 5$
E	$2xy = 5$
F	$\frac{x}{y} = 3$

[2 marks]

_____ and _____
 _____ and _____



GCSE Maths Revision Cards

- ✓ All major GCSE maths topics covered
- ✓ Higher and foundation
- ✓ All exam boards - AQA, OCR, Edexcel, WJEC

Get them at mme.la/cards or scan the barcode



- 5 From the equations below, find four pairs of equations which have the same gradient. (Level 6)

A	$y = 7x + 4$
B	$(x + 1)^2 - x^2 = 4y$
C	$2(3x + 4) - y - (1 - x) = 0$
D	$2y = 3(2x - 4)$

E	$\frac{y}{x} = 3$
F	$y - 2(x + 3) = -(6 + x)$
G	$6y - 3x + 2 = 0$
H	$x = y$

[4 marks]

_____ and _____

_____ and _____

_____ and _____

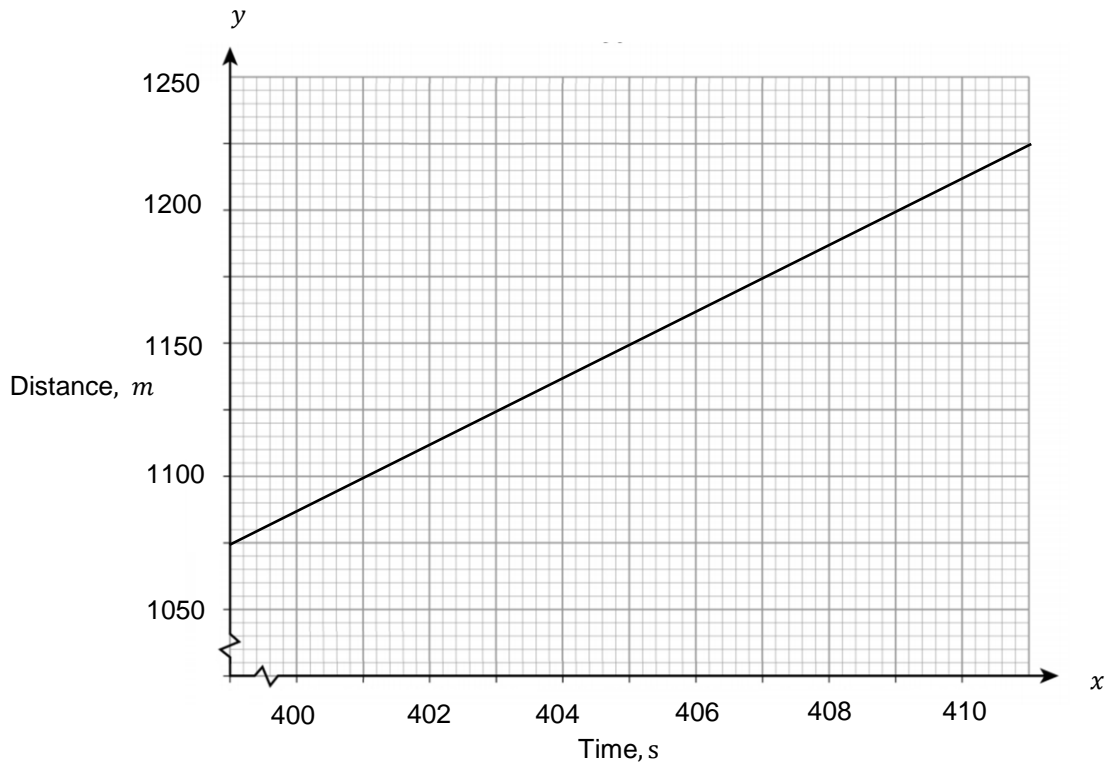
_____ and _____

Turn over for next question

6

The graph below is a distance time graph for a car, over 10 seconds, during a race

(Level 6)



6(a) Find the equation of the straight line graph.

[2 marks]

6(b) What does the value of m represent in terms of this car.

Explain your answer.

[2 marks]

Turn over ►

7(a) Two lines EF and GH are parallel.

(Level 6)

$$EF: y = 5x - 2.$$

$$G = (5, a)$$

$$H = (2a, 8)$$

Find the value of a.

[3 marks]

Answer _____

7(b) Hence or otherwise, write down the equation of GH.

[2 marks]

Answer _____



GCSE Maths Practice Exam Papers

- ✓ GCSE Maths predicted papers and mark schemes
- ✓ Paper 1, 2, 3 and mark scheme in every set
- ✓ All exam boards - AQA, OCR, Edexcel, WJEC

Get them at mme.la/papers or scan the barcode →

