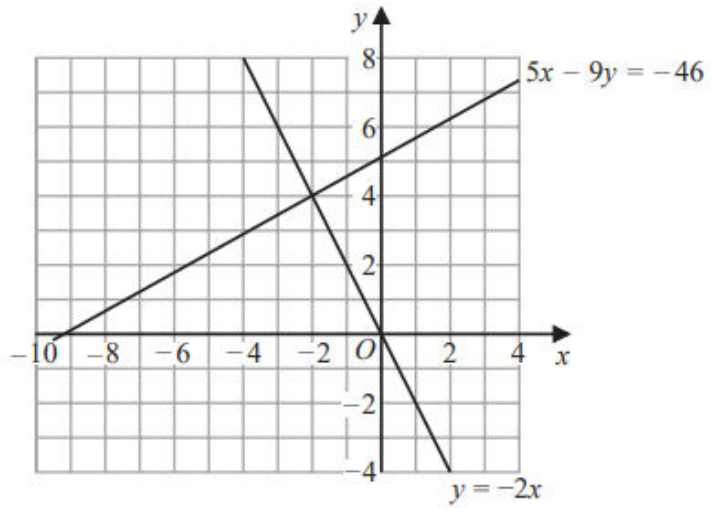


**SOLVING SIMULTANEOUS EQUATIONS GRAPHICALLY**

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Foundation Tier

1.

28



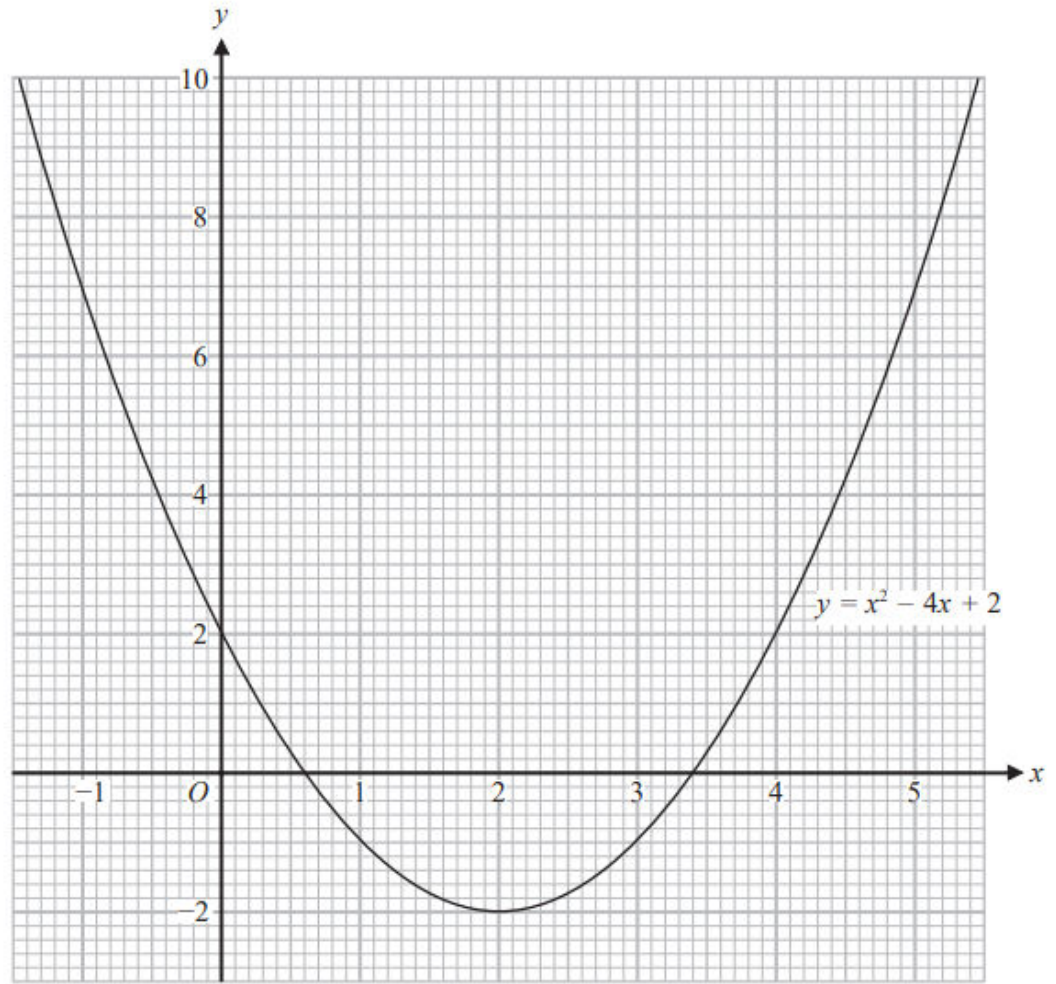
(a) Use these graphs to solve the simultaneous equations

$$\begin{aligned} 5x - 9y &= -46 \\ y &= -2x \end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(1)



(b) Use this graph to find estimates for the solutions of the quadratic equation  $x^2 - 4x + 2 = 0$

.....  
(2)

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**(Total for Question 28 is 3 marks)**

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OCR Tuesday 5 November 2019 – Morning (Calculator) Foundation Tier

2.

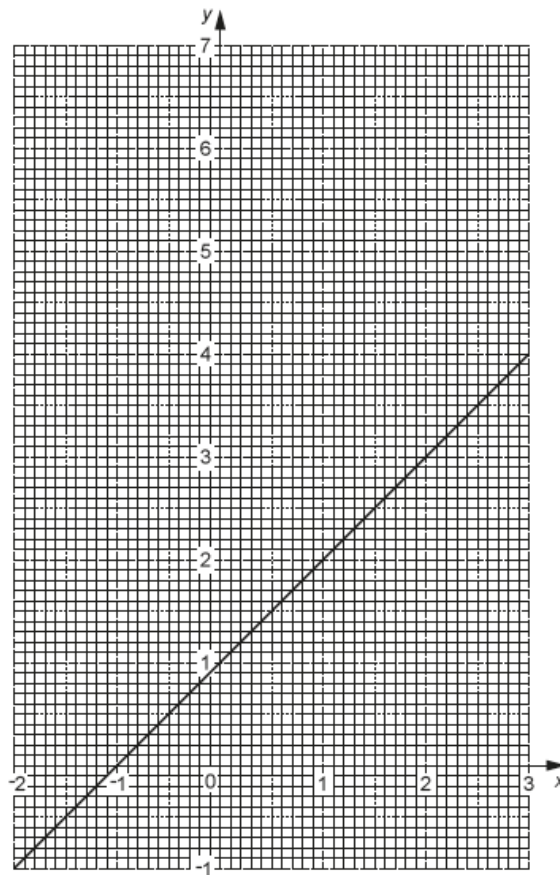
22 (a) Complete this table for  $y = x^2 - x$ .

x	-2	-1	0	1	2	3
y	6		0		2	6

[2]

(b) The graph of  $y = x + 1$  is shown on the grid.

On the same grid, use part (a) to draw the graph of  $y = x^2 - x$  for values of x from -2 to 3.



[3]

(c) Write down the x-coordinates of the points where  $y = x^2 - x$  and  $y = x + 1$  cross.

(c)  $x = \dots\dots\dots$  and  $x = \dots\dots\dots$  [2]

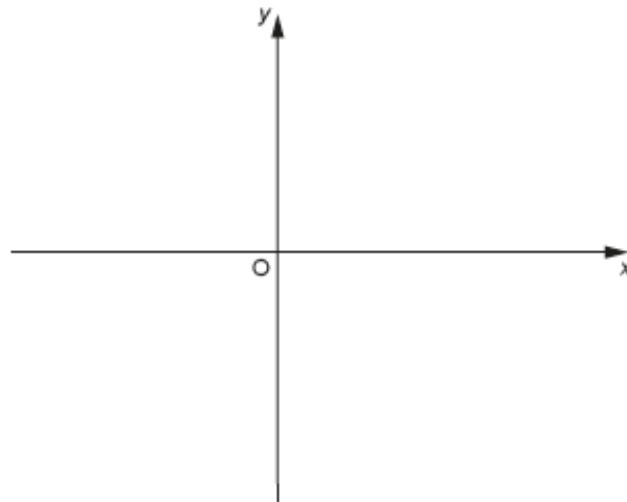
3.

13 (a) (i) Sketch the graph of  $y = 2$ .



[2]

(ii) Sketch the graph of  $y = x + 1$ .



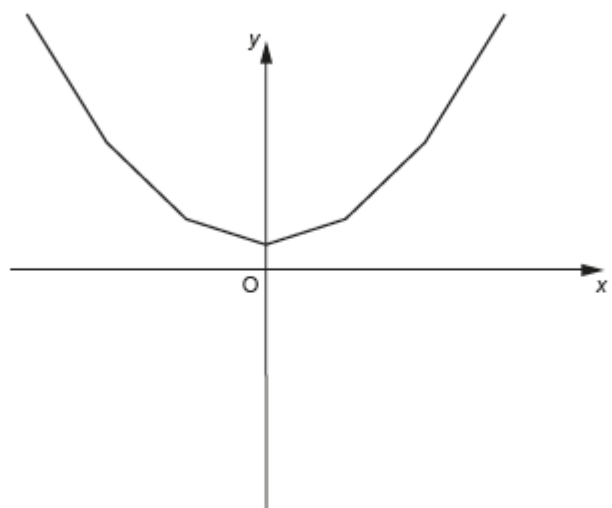
[2]

(iii) Ceri says that the graphs of  $y = 2$  and  $y = x + 1$  cross at the point  $(2, 3)$ .

Explain the error in her answer.

.....  
..... [1]

(b) Oliver has sketched the graph of  $y = x^2$  below.



Make two comments about the accuracy of his sketch.

1 .....

.....

2 .....

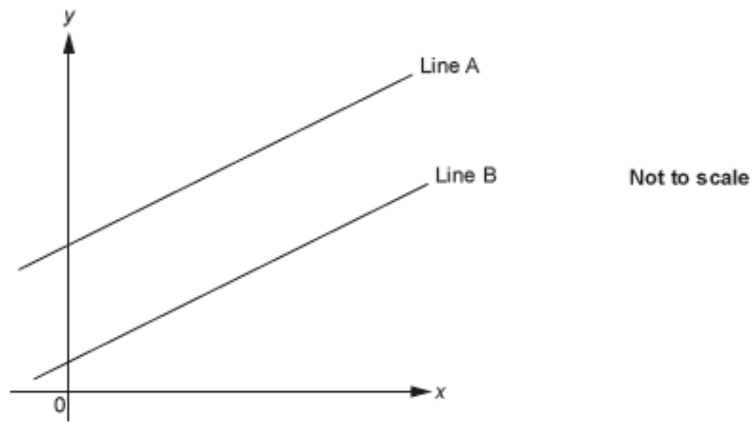
.....

[2]

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

4.

24 The graph shows two parallel lines, Line A and Line B.



Line A has equation  $y = 6x + 7$ .  
Line B passes through the point  $(4, 26)$ .

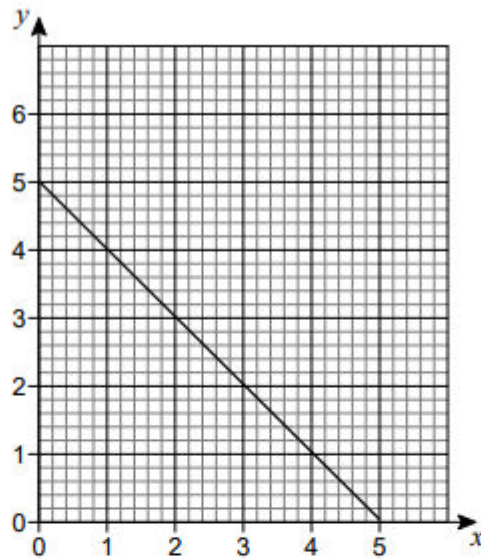
Find the equation of Line B.

..... [4]

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

5.

17 Here is the graph of  $y = 5 - x$  for values of  $x$  from 0 to 5



17 (a) On the same grid, draw the graph of  $y = x + 1$  for values of  $x$  from 0 to 5

[2 marks]

17 (b) Use the graphs to solve the simultaneous equations

$$y = 5 - x \quad \text{and} \quad y = x + 1$$

[1 mark]

$$x = \underline{\hspace{4cm}}$$

$$y = \underline{\hspace{4cm}}$$