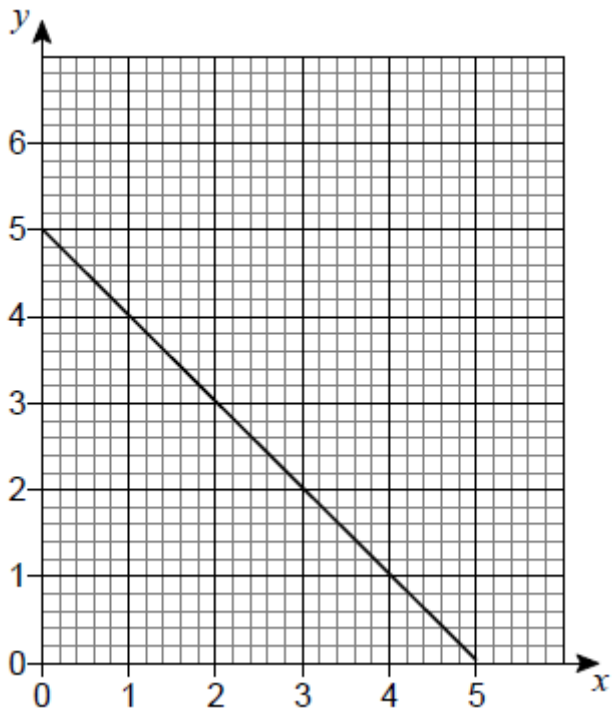
Q1.

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



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

(2)

(b) Use the graphs to solve the simultaneous equations

$y = 5 - x$ and $y = x + 1$

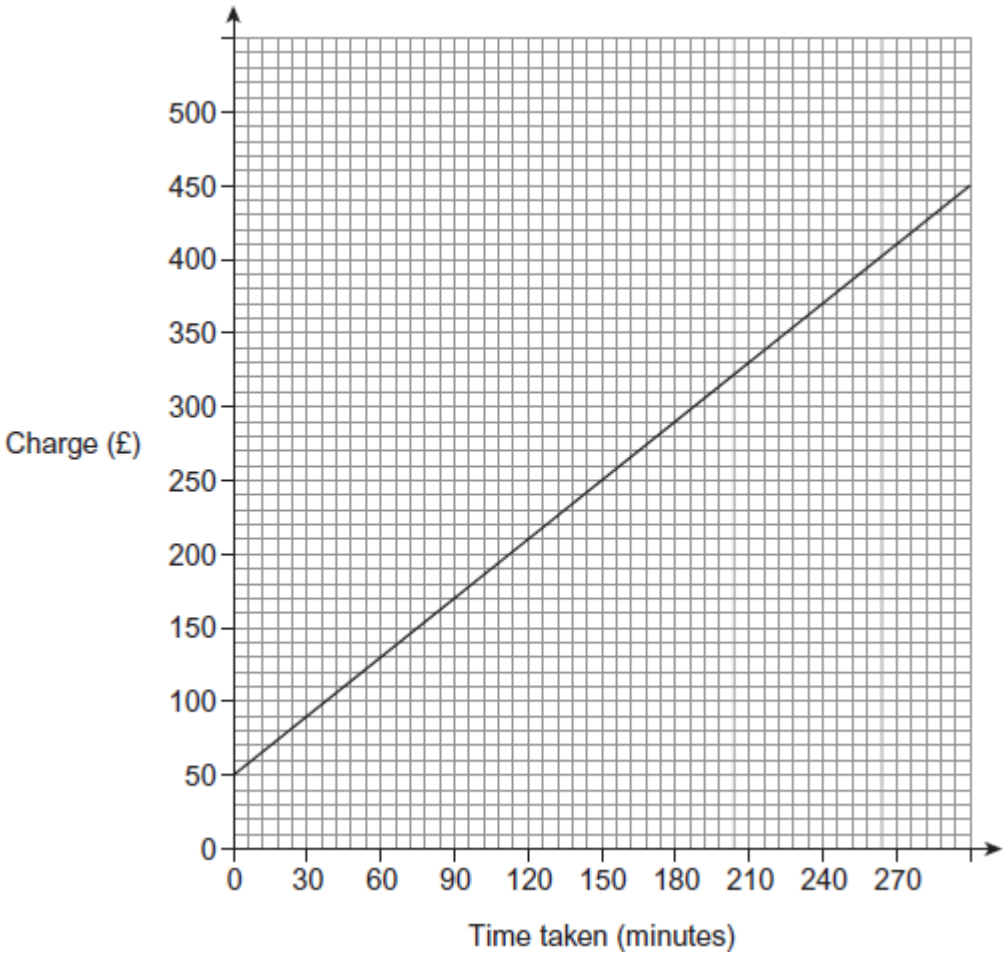
x = ...

y = ...

(1)

(Total 3 marks)

Q2. Law firm *A* uses this graph to work out charges.



(a) How much does Law firm *A* charge for 30 minutes?

Answer £ .....

(1)

(b) Law firm *A* charges a customer £370

How many minutes is this for?

Answer ..... minutes

(1)

(c) Law firm *B* charges

£150 for up to 90 minutes

plus £50 for every extra 30 minutes.

Which law firm is cheaper, and by how much, for 270 minutes?

.....

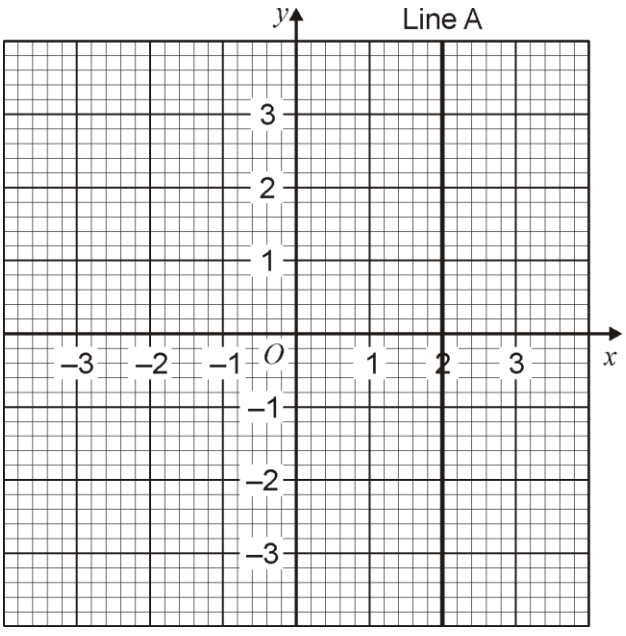
.....

.....

Law Firm ..... is cheaper by £ .....

(3)
(Total 5 marks)

Q3.



(a) Circle the equation of line *A*.

$y = 2$ $x = 2$ $x + y = 2$ $y = x + 2$

(1)

(b) On the grid draw the line $y = x$

(1)

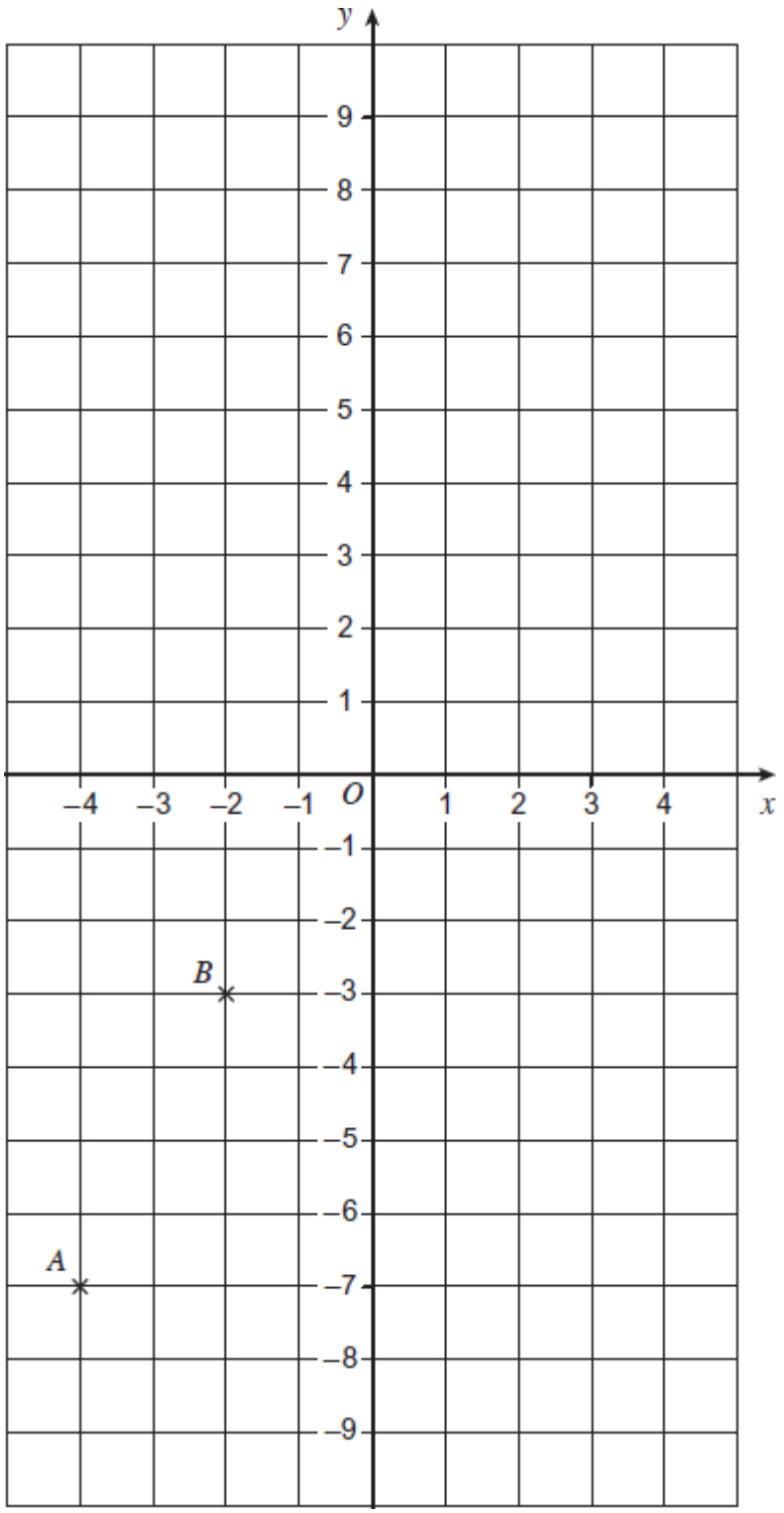
(c) Write down the coordinates of the point where the line $y = x$ crosses line *A*.

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

(1)
(Total 3 marks)

Q4. Points A (−4, −7) and B (−2, −3) are plotted.

A and B lie on the line $y = 2x + 1$



Write down the coordinates of **two** other points on the line $y = 2x + 1$

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

(..... , ...)

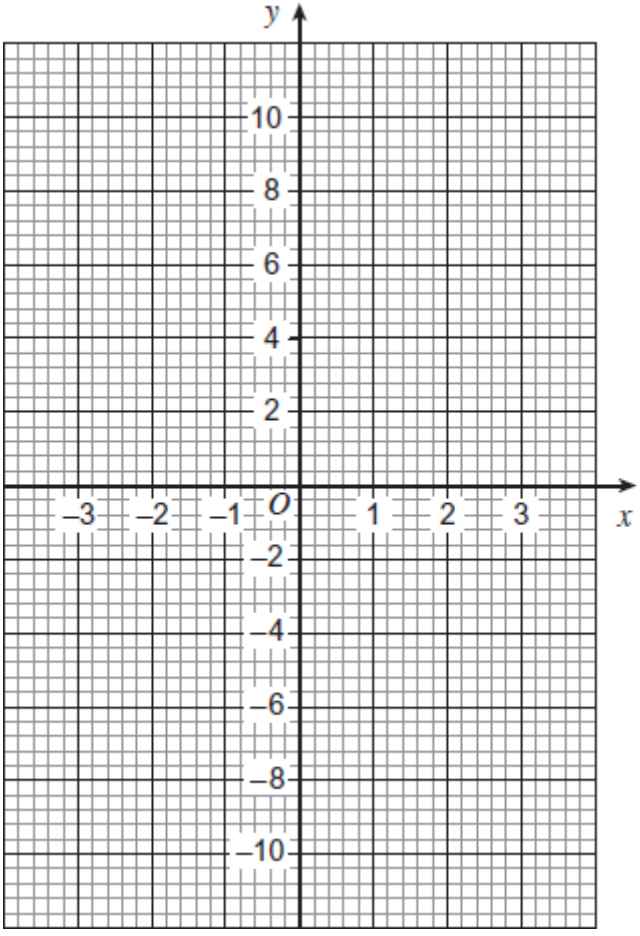
(Total 2 marks)

Q5.(a) Complete the table for $y = 3x - 1$

x	–3	–2	–1	0	1	2	3
y	–10		–4	–1	2		8

(2)

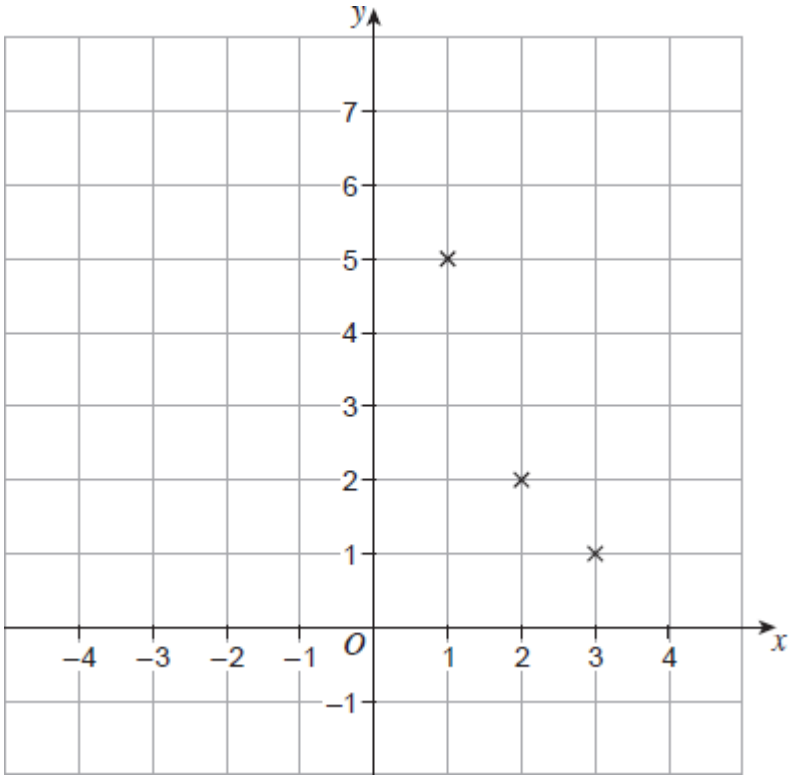
(b) On the grid draw the graph of $y = 3x - 1$ for values of x from −3 to 3



(2)

(Total 4 marks)

Q6.



(a) Three points are shown on the grid.

Circle the point which does **not** lie on the line $2x + y = 7$

(1)

(b) Work out the coordinates of the point where the line $2x + y = 7$ crosses the x-axis.

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

(2)
(Total 3 marks)

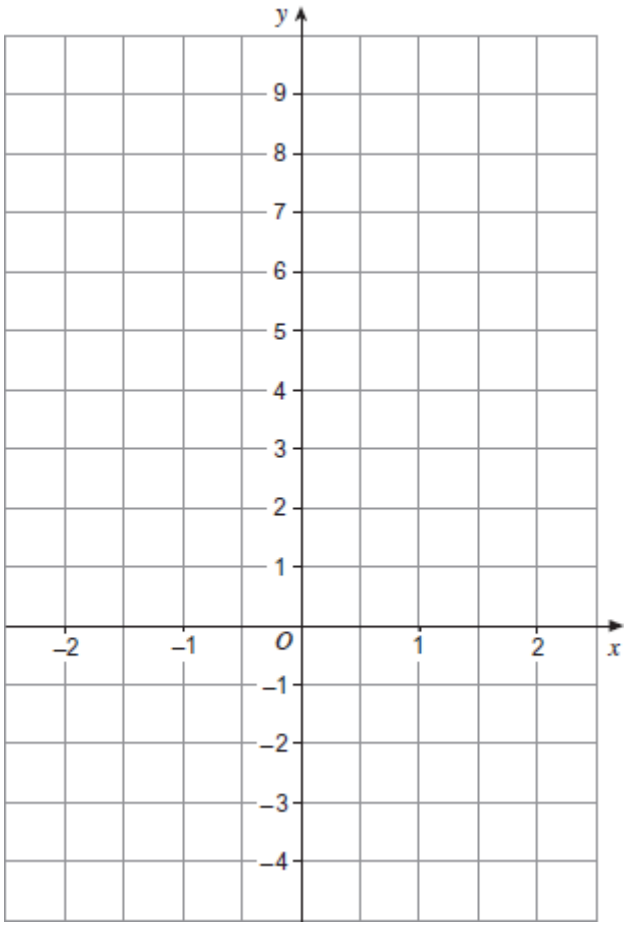
Q7.(a) Complete the table of values for $y = 3x + 2$

x	−2	−1	0	1	2

y		−1		5	

(2)

(b) On the grid draw the graph of $y = 3x + 2$ for values of x from −2 to 2



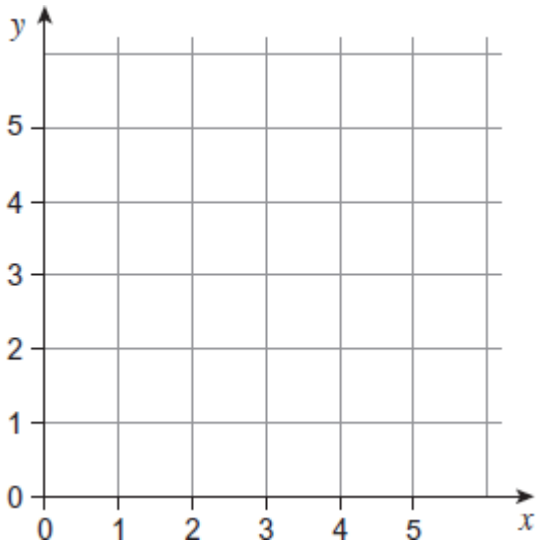
(2)

(c) Work out the gradient of the line $y = 3x + 2$

Answer .....

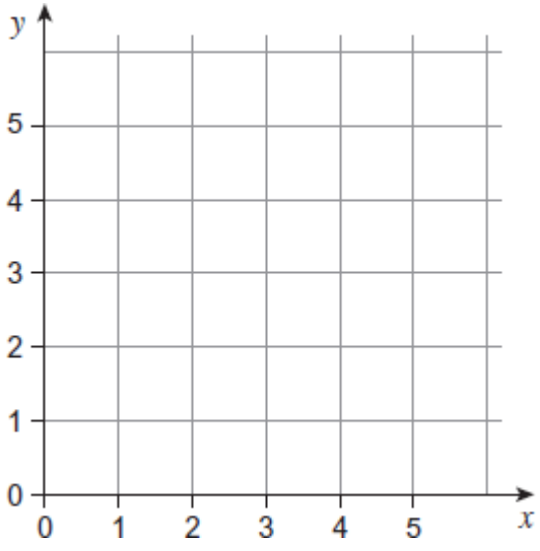
(1)
(Total 5 marks)

Q8.(a) Draw the line $x = 2$ on the grid.



(1)

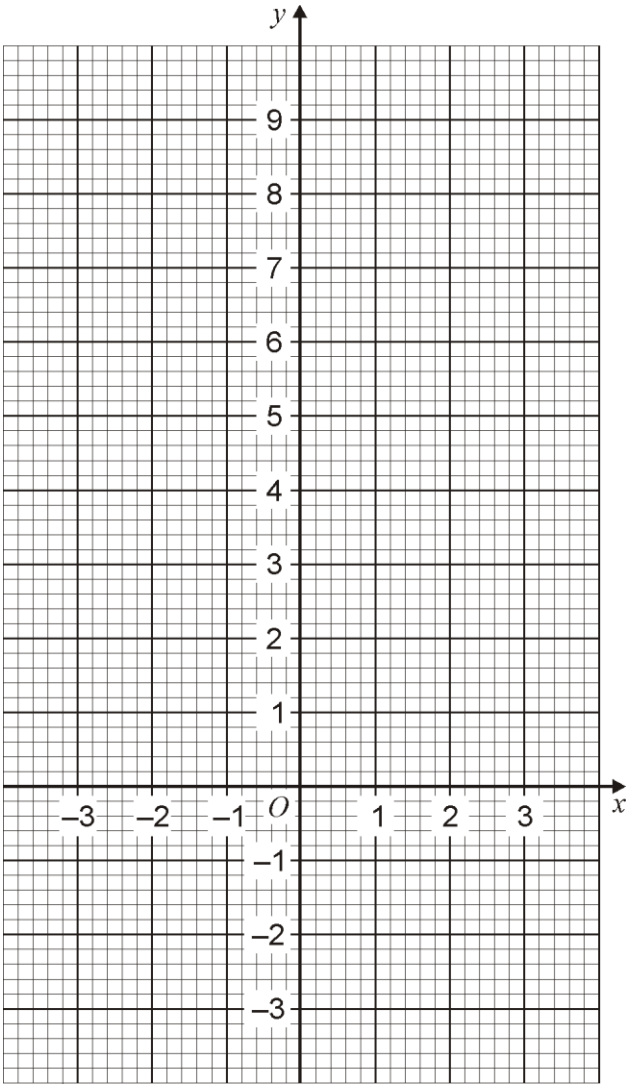
(b) Draw the line $y = x$ on the grid below.



(1)
(Total 2 marks)

Q9. Use this table of values to draw the graph of $y = 2x + 3$ for values of x from −3 to 3

x	–3	0	3
y	–3	3	9



(Total 2 marks)

Q10.

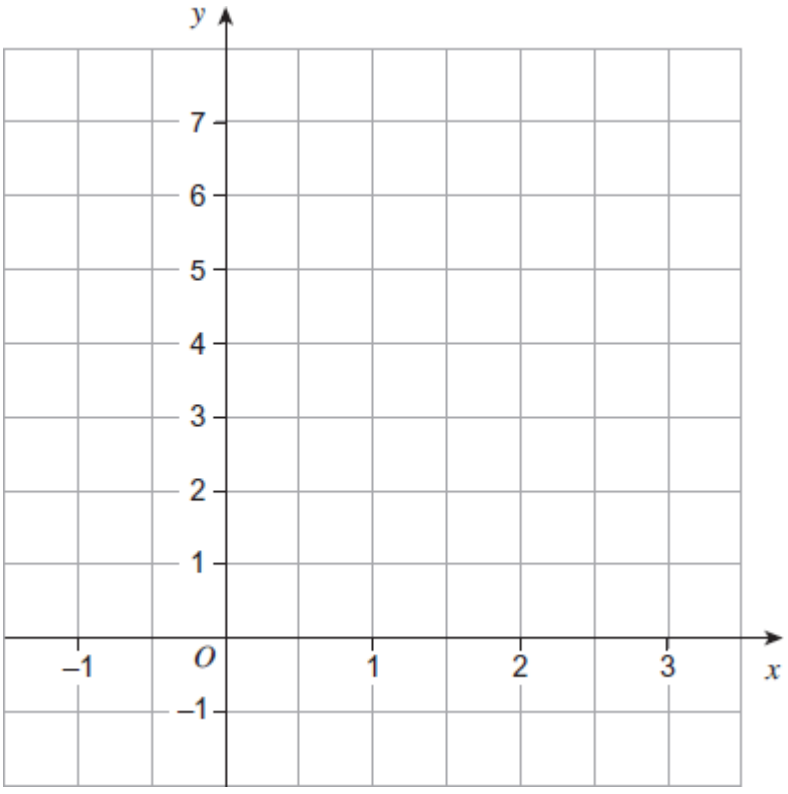
(a) Complete the table of values for $y = 2x + 1$

x	–1	1	3
y	–1	3	

(1)

(b) On the grid draw the graph of $y = 2x + 1$ for values of x from −1 to 3.

)



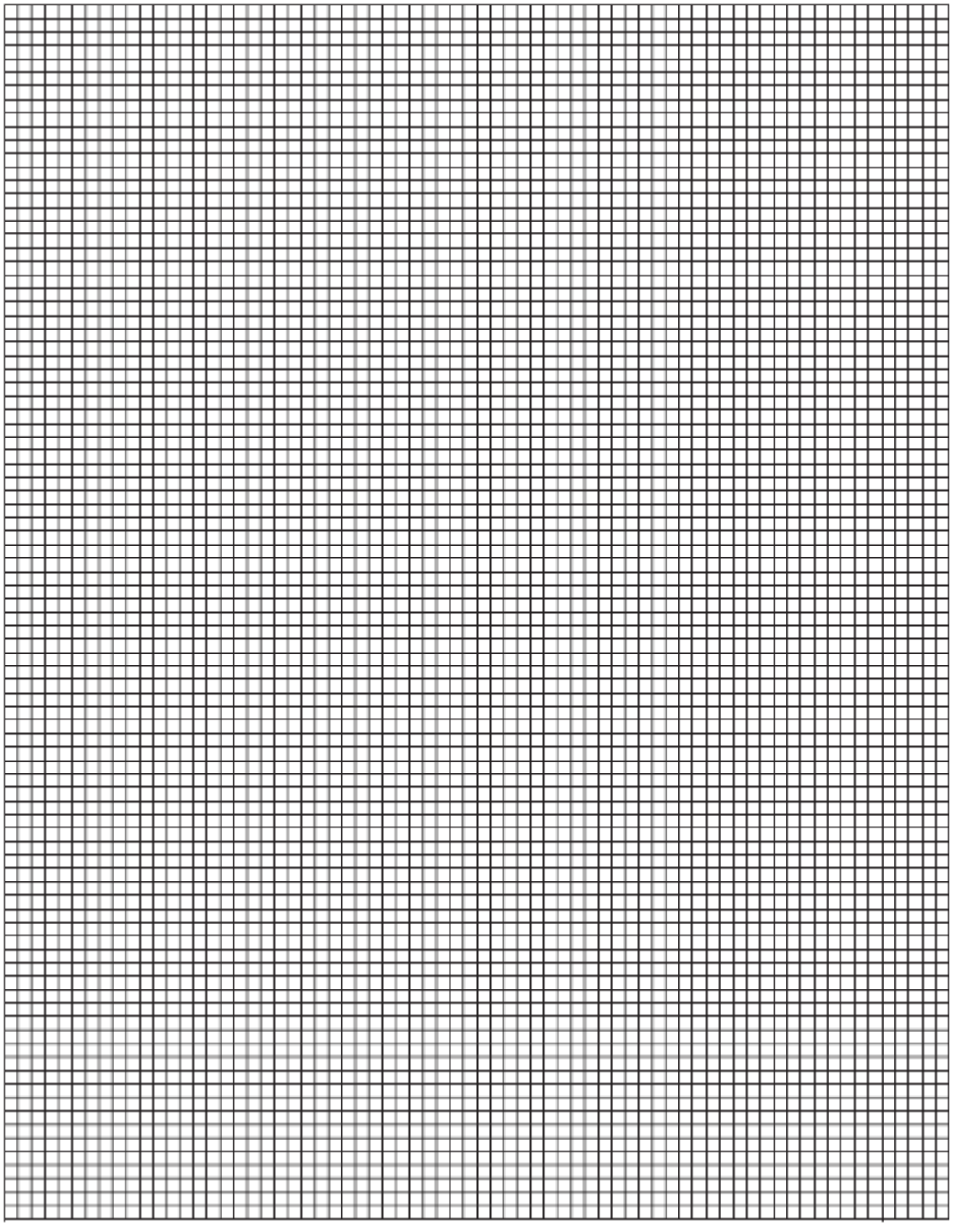
(2)

(c) On the grid draw the line $y = 5$

(1)
(Total 4 marks)

Q11.

In this question you may use the grid below, but you do not have to.



(a) Show that the line $y = 3x - 6$ does **not** go through the point (4, 7).

.....

.....

.....

.....

.....

(2)

(b) Work out the coordinates of the point where the line $y = 3x - 6$ crosses the ***x*-axis**.

.....

.....

.....

.....

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

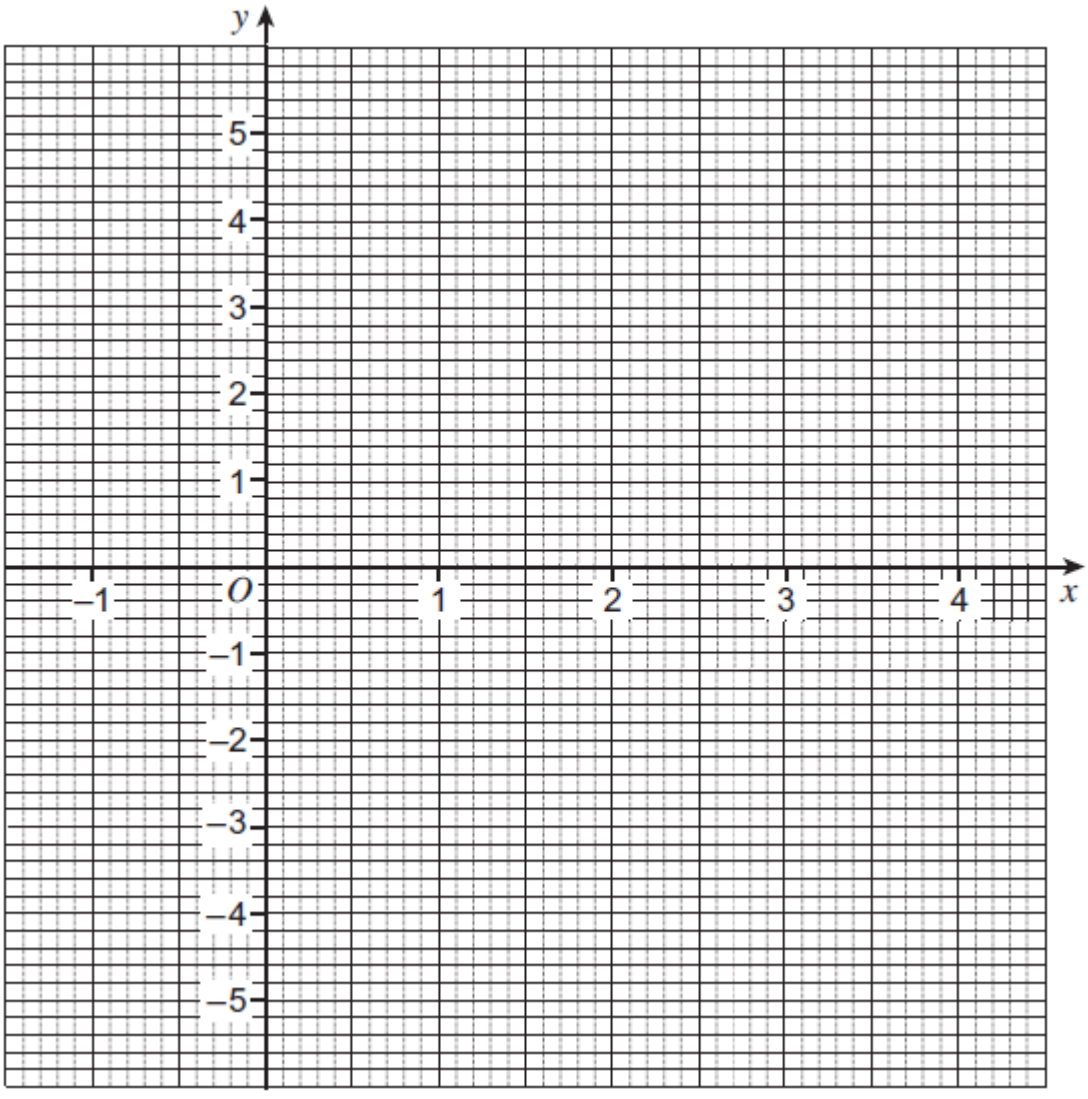
(2)
(Total 4 marks)

Q12.(a) Complete the table of values for $y = 2x - 3$

x	−1	0	1	2	3	4
y		−3		1		5

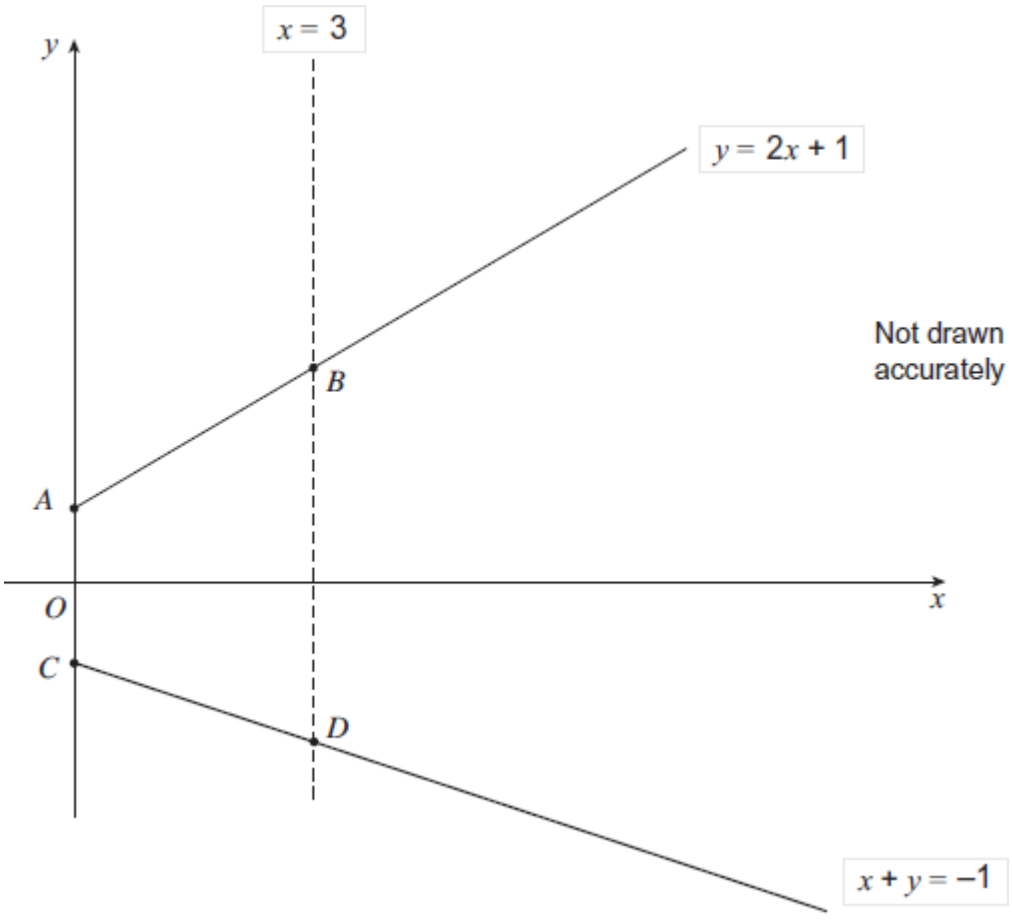
(2)

(b) On the grid draw the graph of $y = 2x - 3$ for values of x from −1 to 4.



(2)
(Total 4 marks)

Q13.



Work out the ratio of lengths *AC : BD*

.....

.....

.....

.....

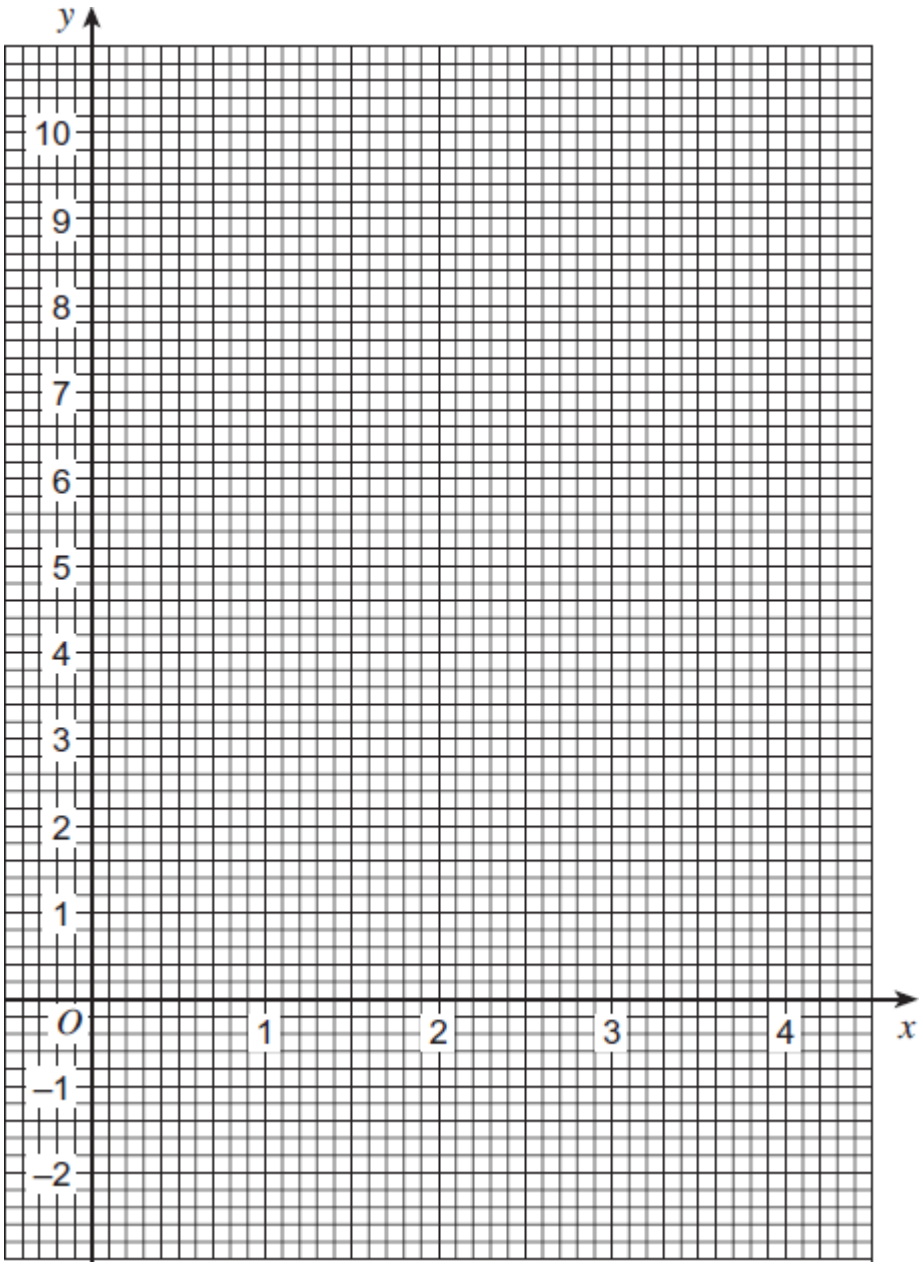
.....

.....

Answer ..... : .....

(Total 4 marks)

Q14.(a) Draw the graph of $y = 2x - 1$ for values of x from 0 to 4.



(3)

(b) Solve $2x - 1 = 2$

.....

.....

x = ...

(1)
(Total 4 marks)

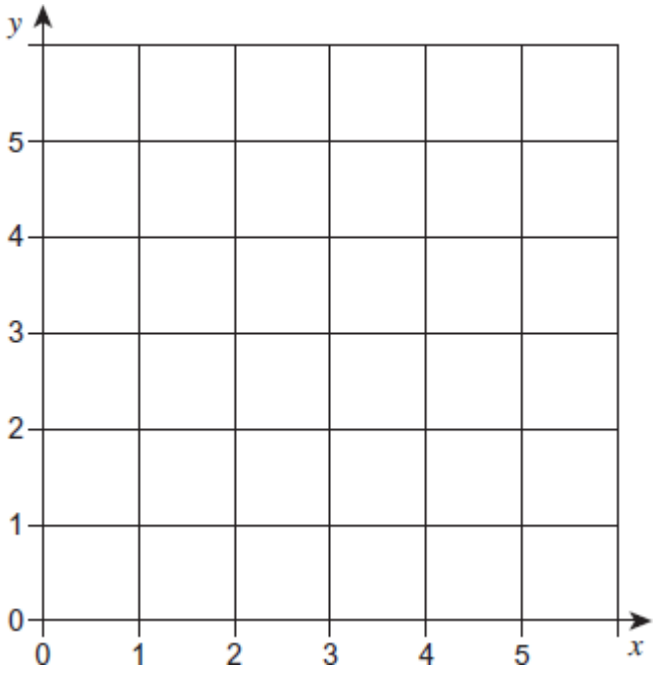
Q15.

(a) Complete the table of values for $x + y = 5$

x	0	3	5
y	5		0

(1)

(b) Draw the graph of $x + y = 5$ for values of x from 0 to 5.



(2)

(c) P is a point on the line.
The x-coordinate of P is the same as the y-coordinate.

Write down the coordinates of P.

(..... , ...)

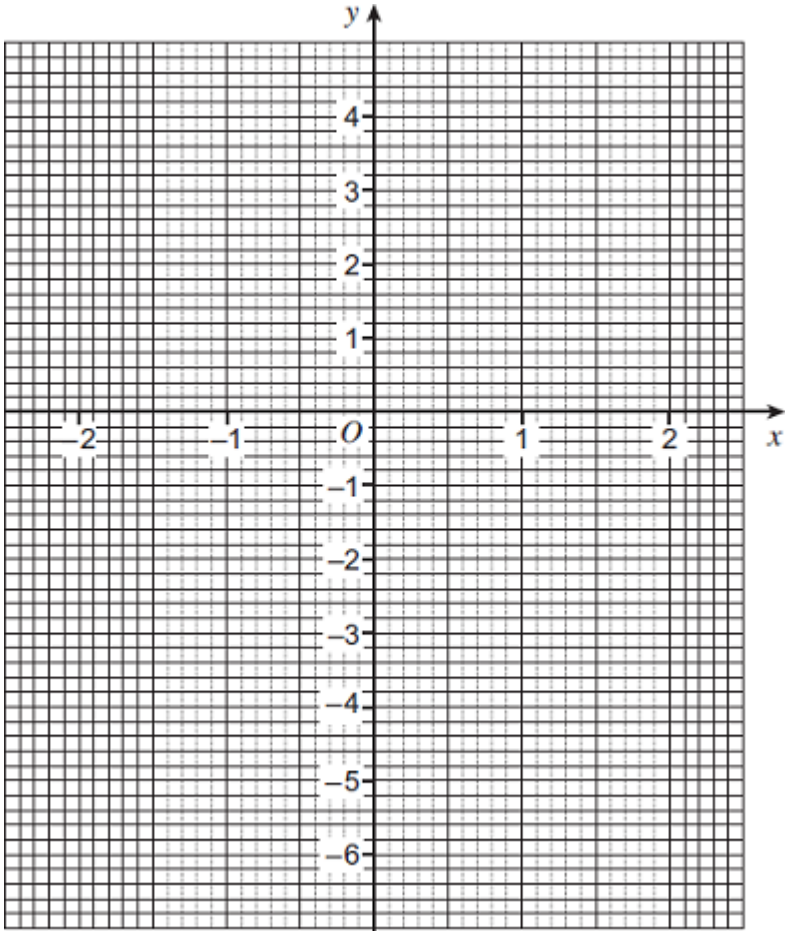
(1)
(Total 4 marks)

Q16.(a) Complete the table of values for $y = 2x - 1$

x	–2	–1	0	1	2
y	–5			1	

(2)

(b) On the grid, draw the graph of $y = 2x - 1$ for values of x from -2 to 2.



(2)
(Total 4 marks)