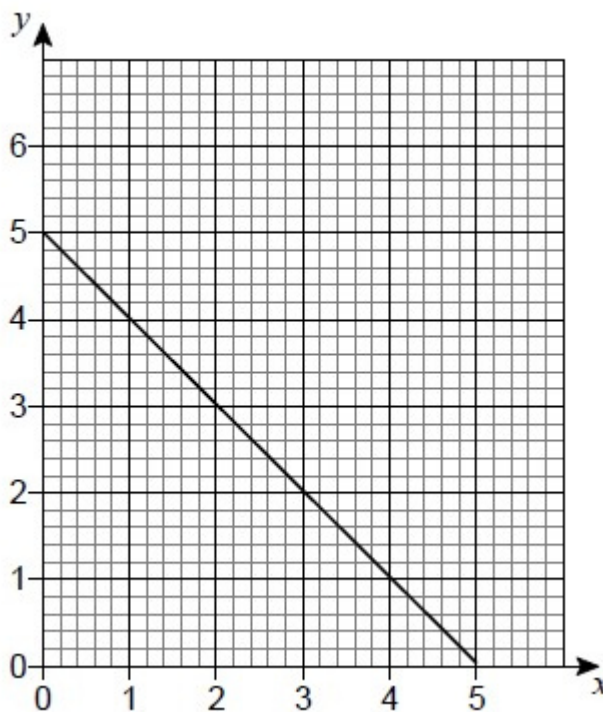


Q1.

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

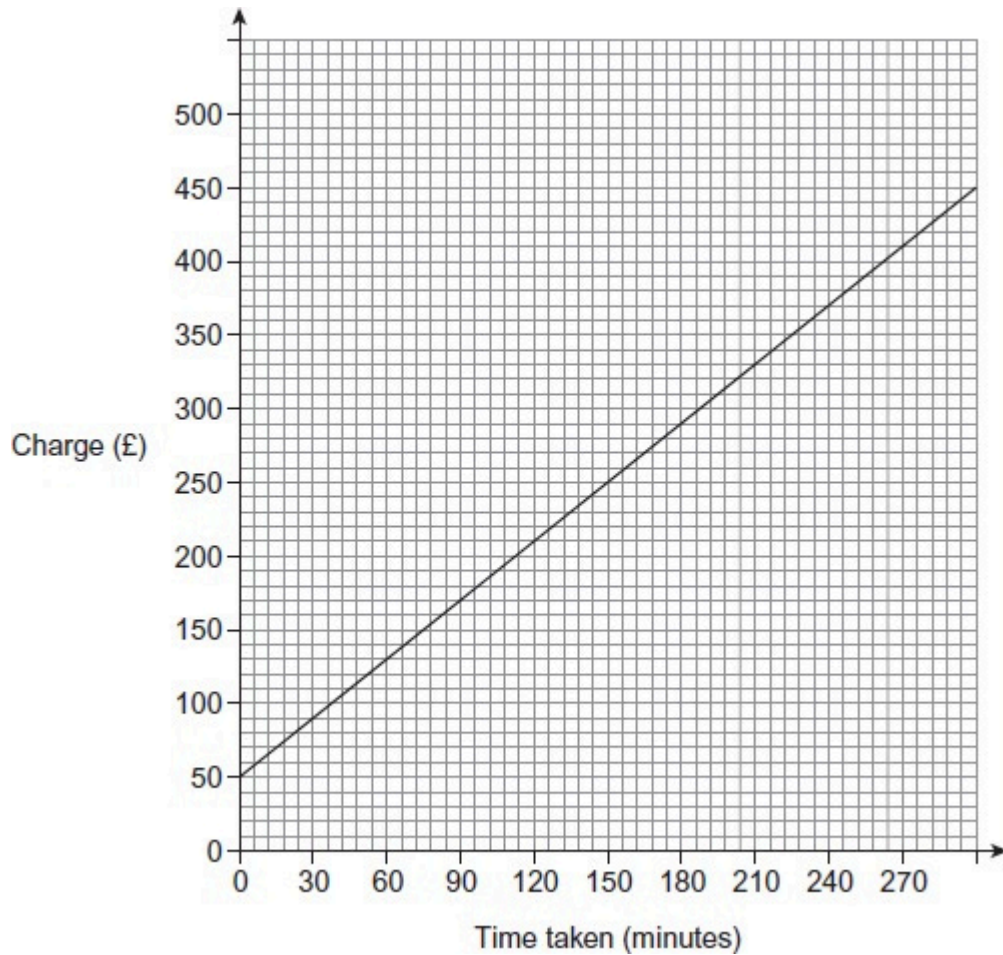
$$y = 5 - x \text{ and } y = x + 1$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(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.

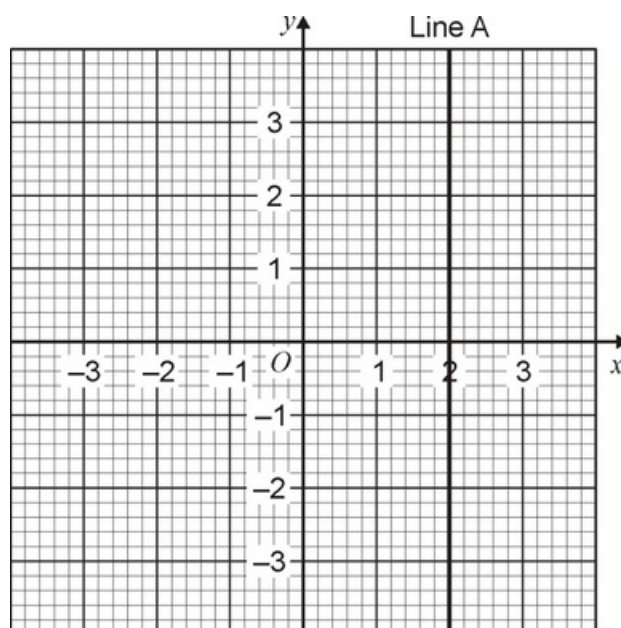
Which law firm is cheaper, and by how much, for 270 minutes?

.....

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 $y = x$

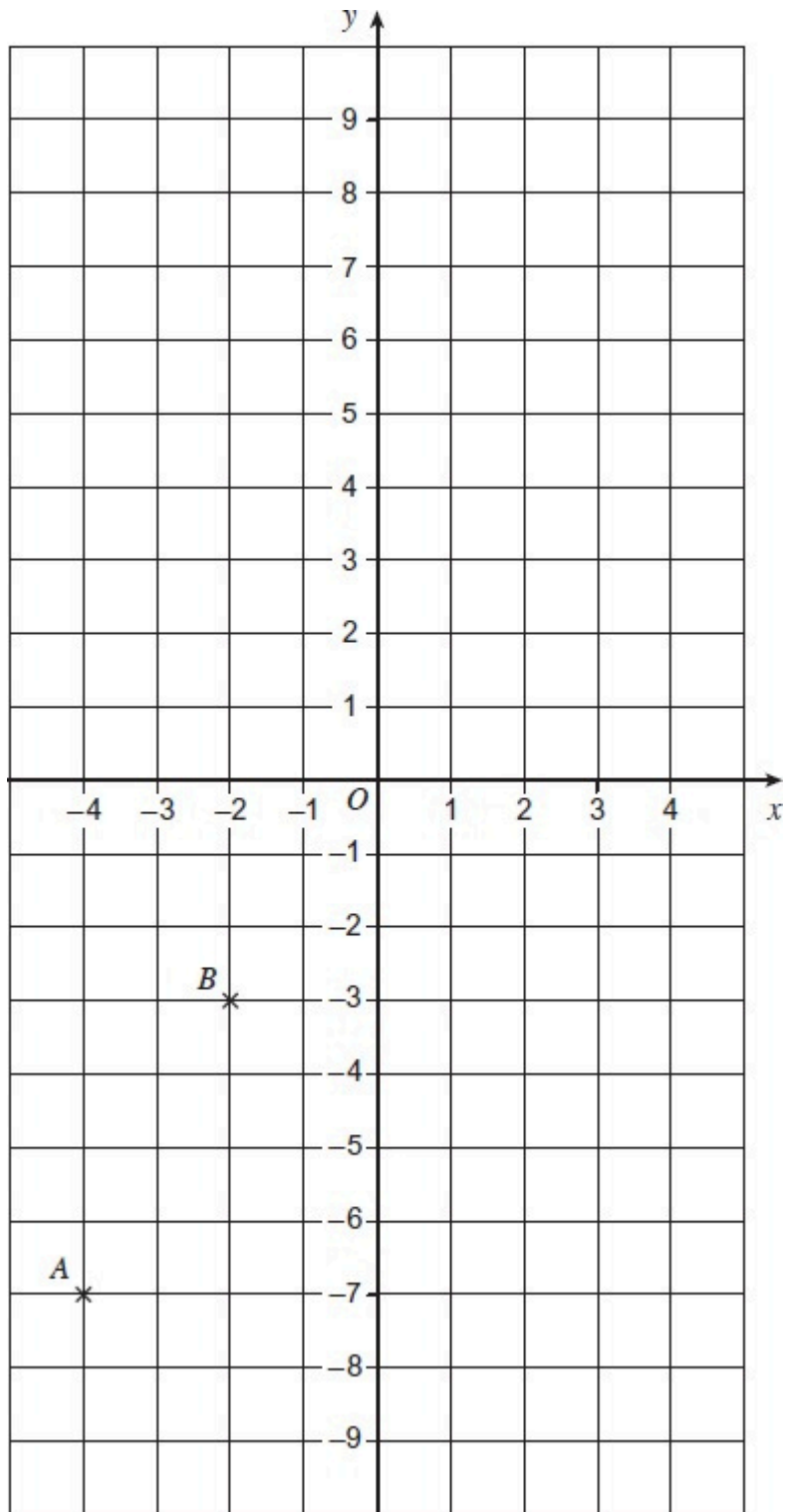
(1)

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

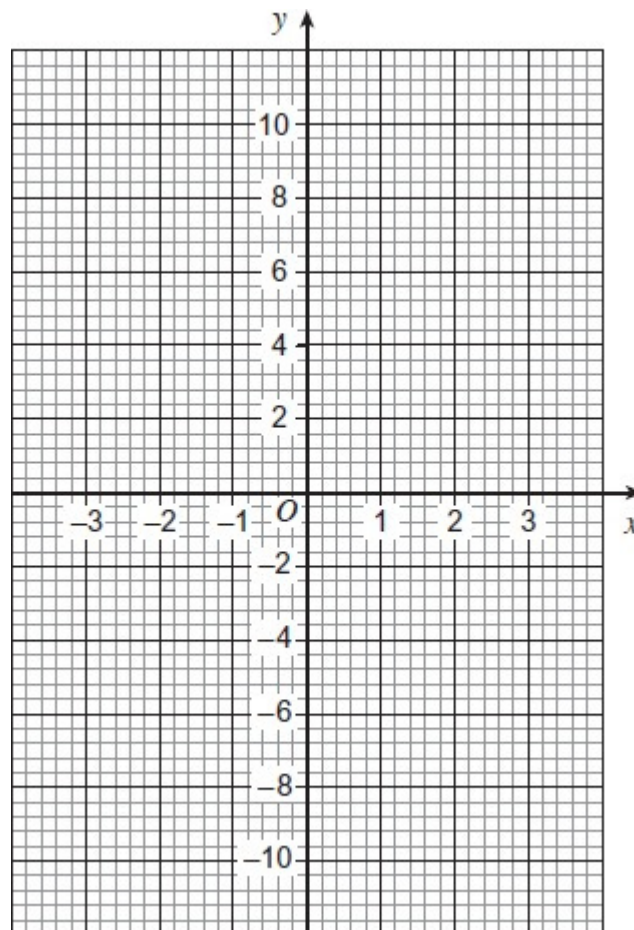
(Total 2 marks)

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

x	-3	-2	-1	0	1	2	3
y	-10		-4	-1	2		8

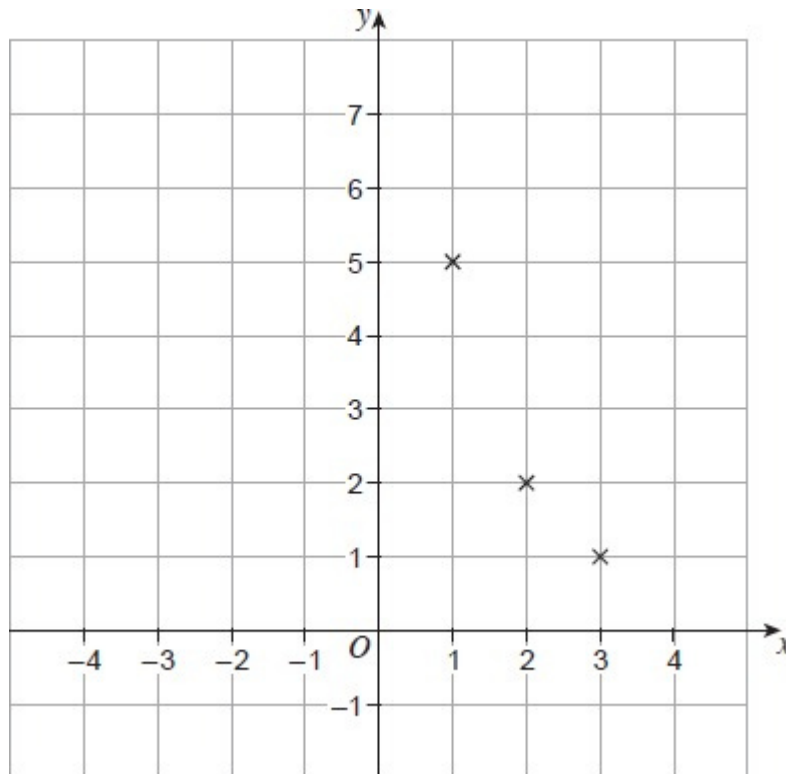
(2)

(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)

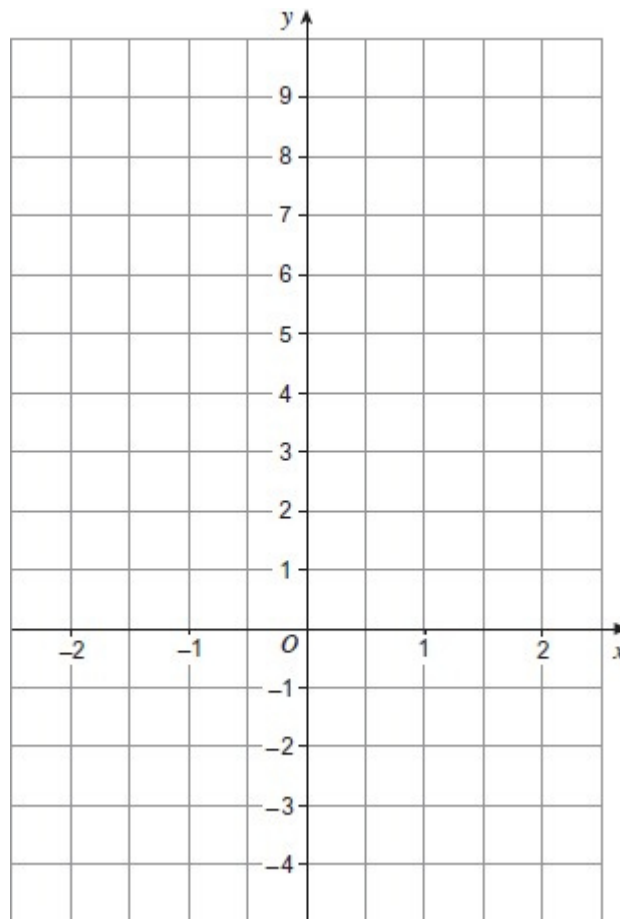
Q7.(a) Complete the table of values for $y = 3x + 2$

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)

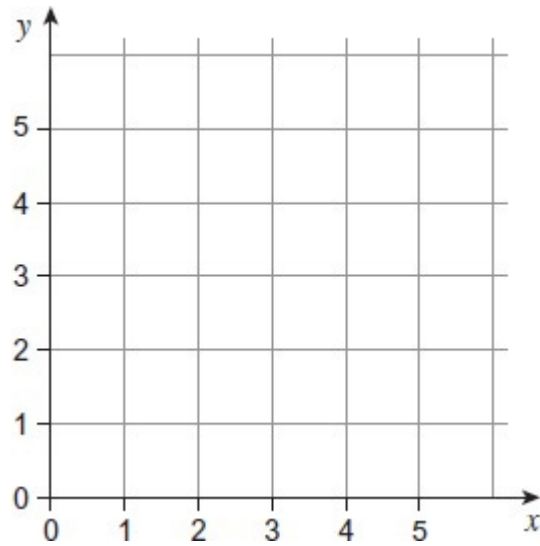
(c) Work out the gradient of the line $y = 3x + 2$

Answer

(1)

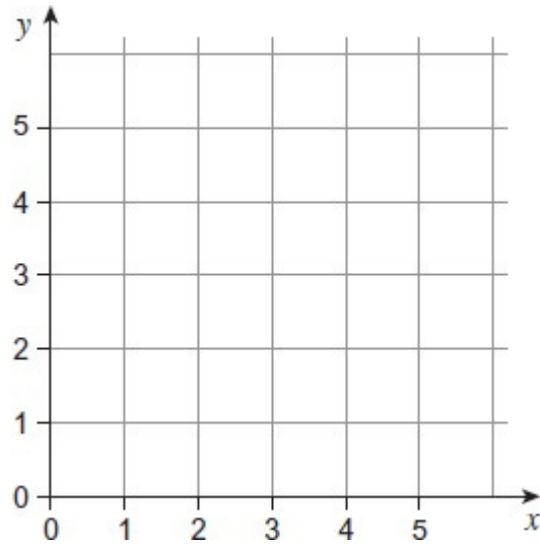
(Total 5 marks)

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



(1)

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

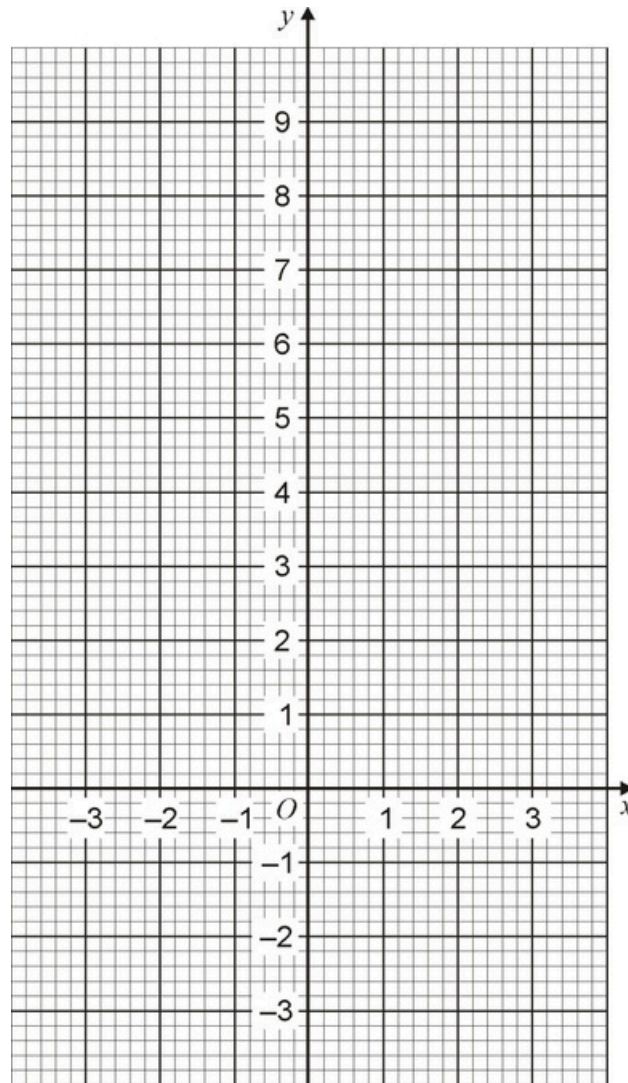


(1)

(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)

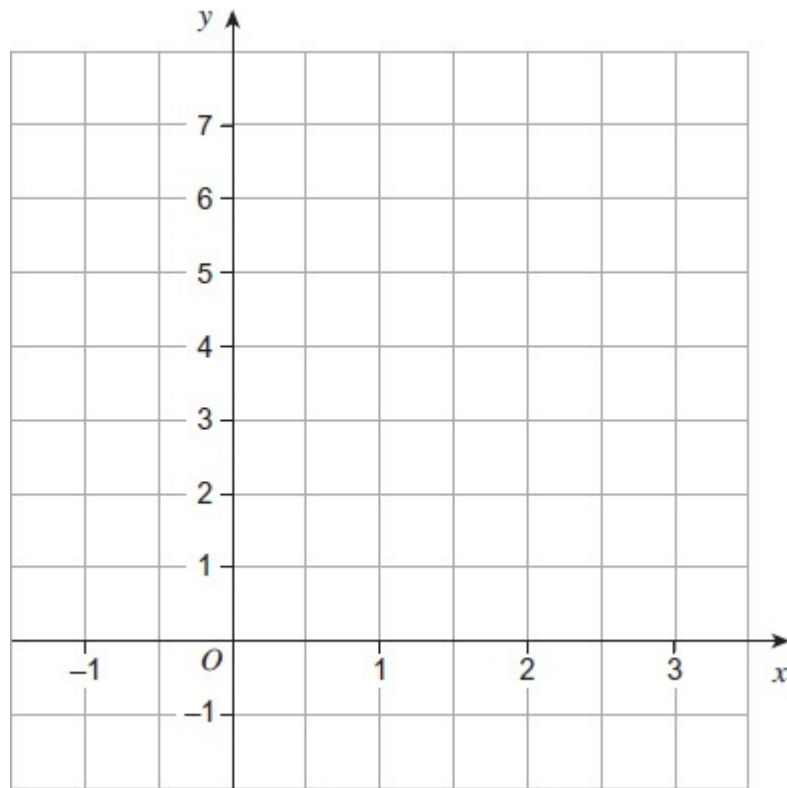
Q10.

- (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)

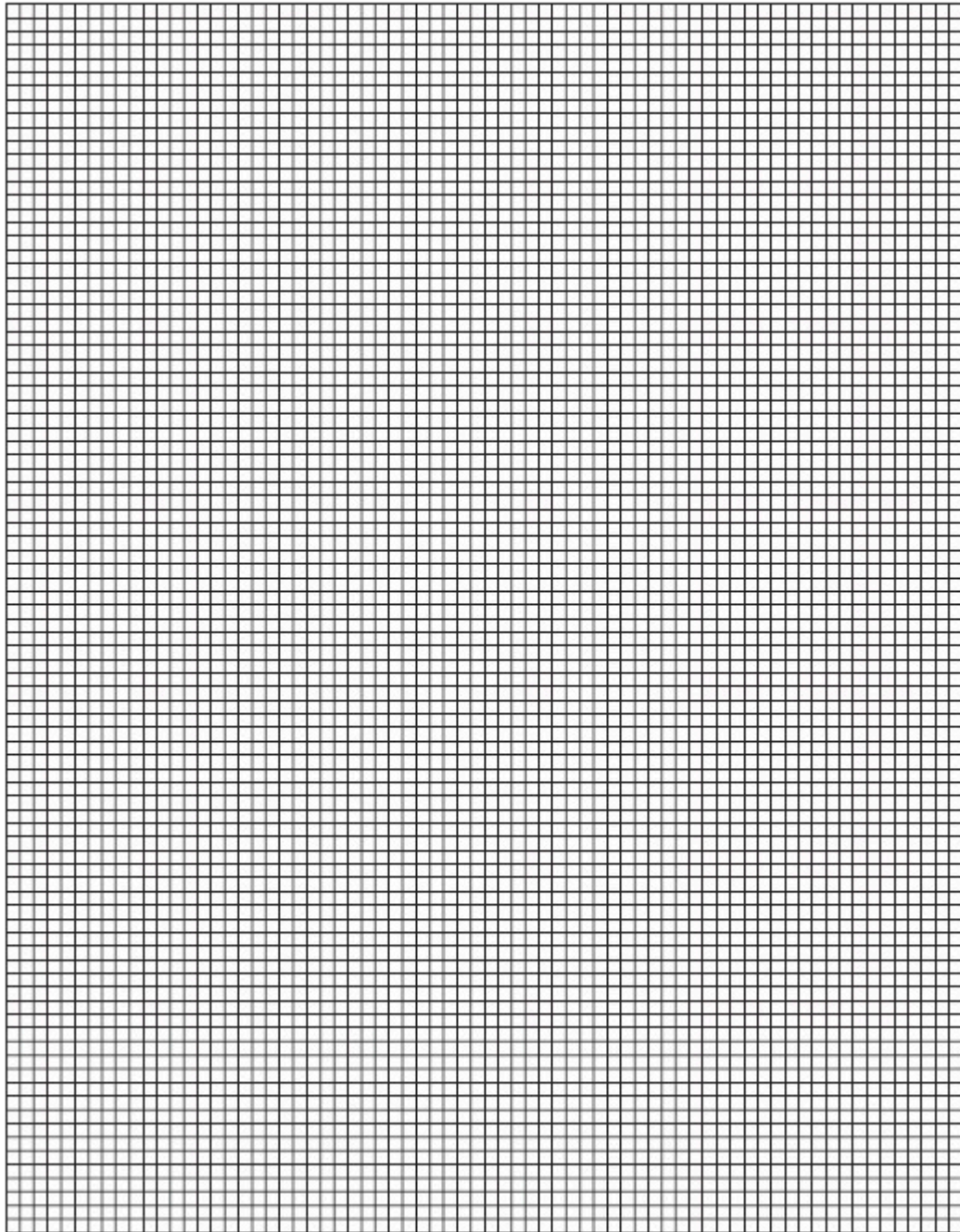
(c) On the grid draw the line $y = 5$

(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)

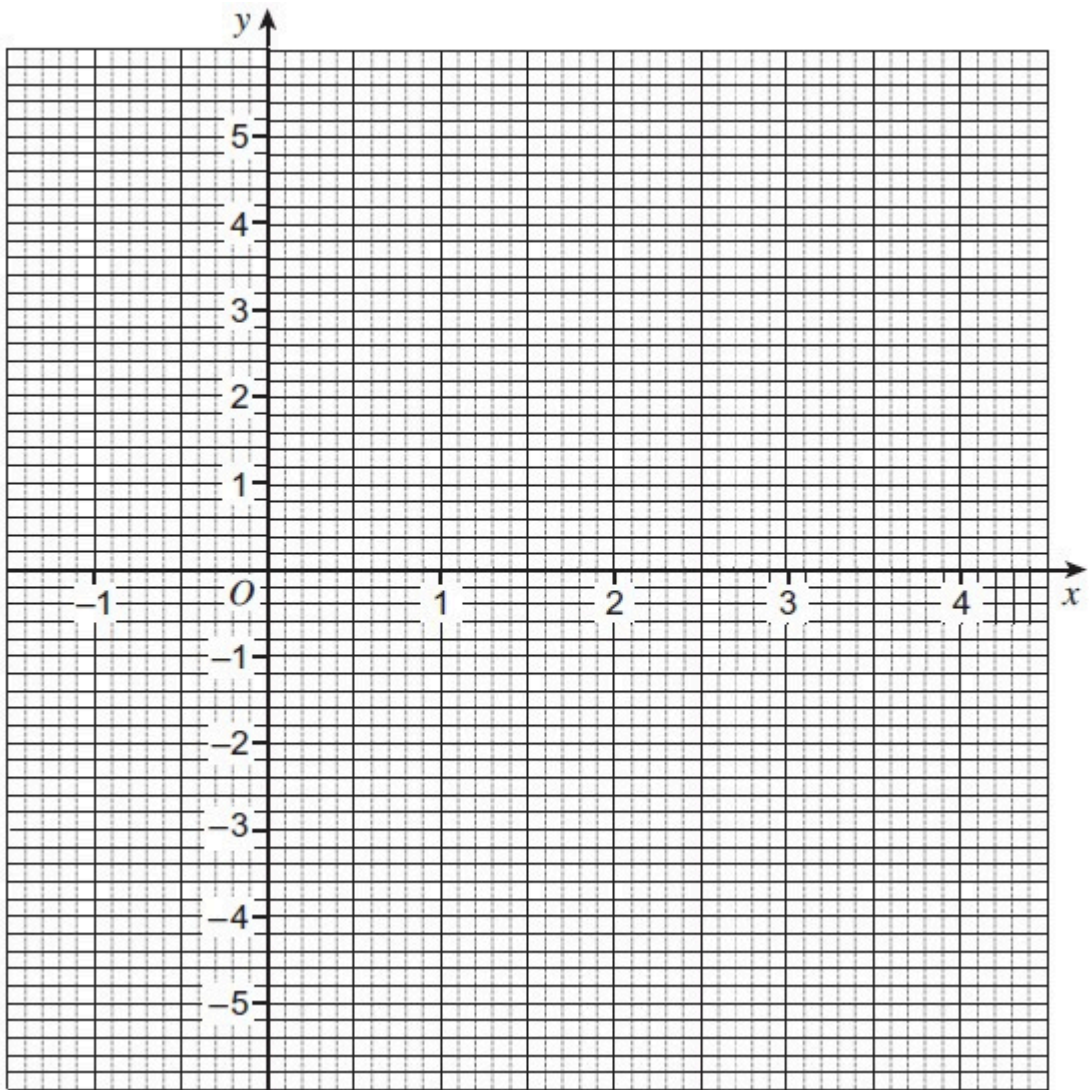
(Total 4 marks)

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

x	-1	0	1	2	3	4
y		-3		1		5

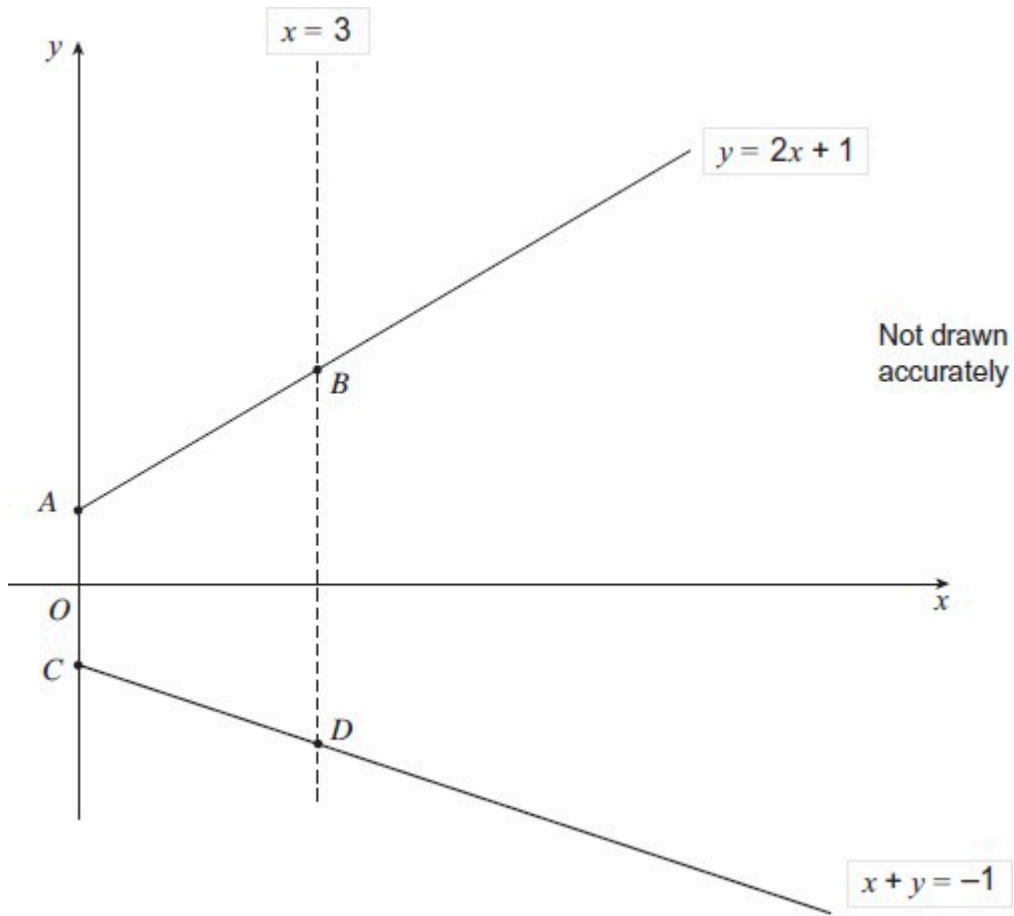
(2)

- (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 $AC : BD$

.....

.....

.....

.....

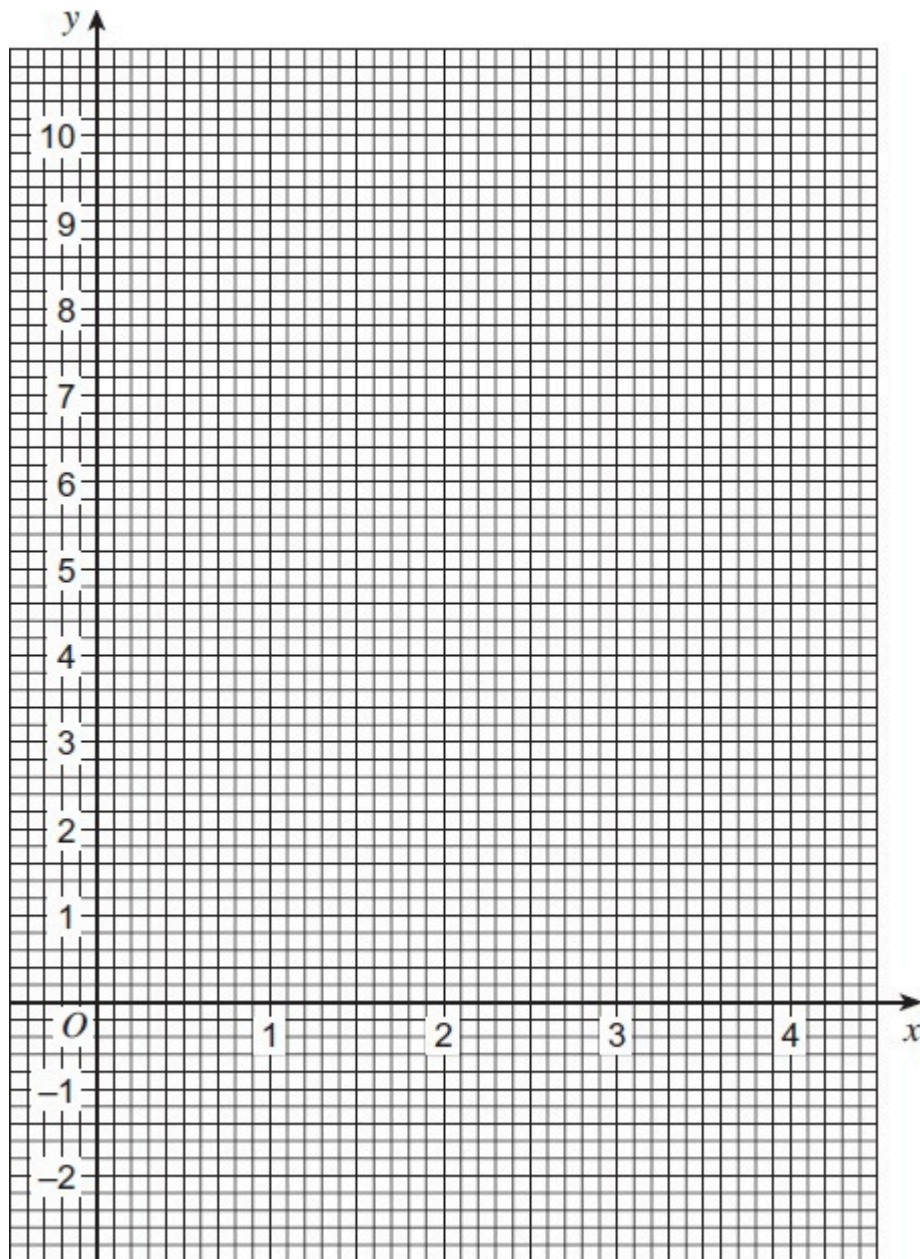
.....

.....

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)

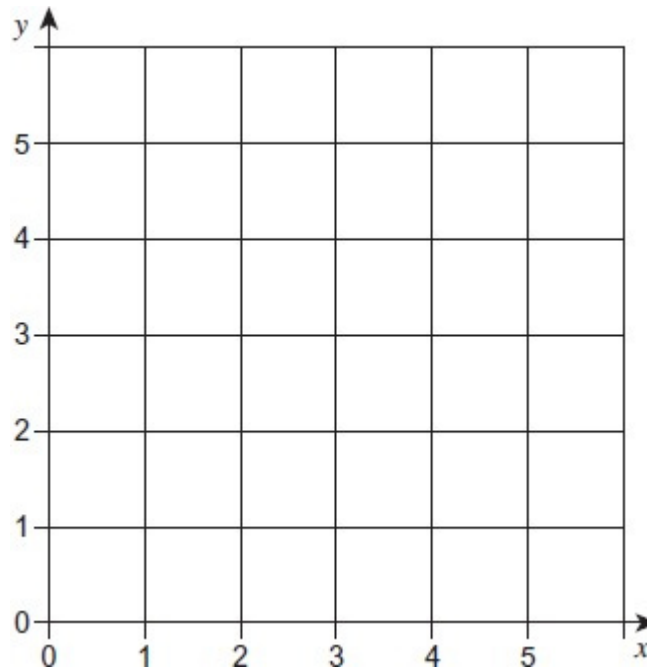
Q15.

(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 .

(..... ,)

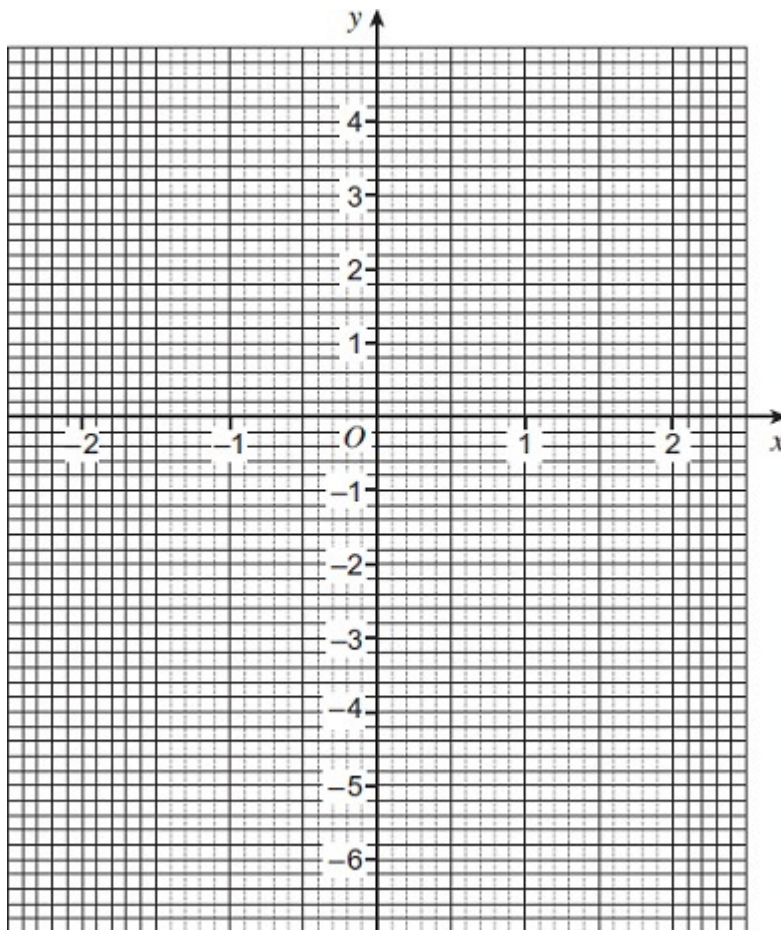
(1)
(Total 4 marks)

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)