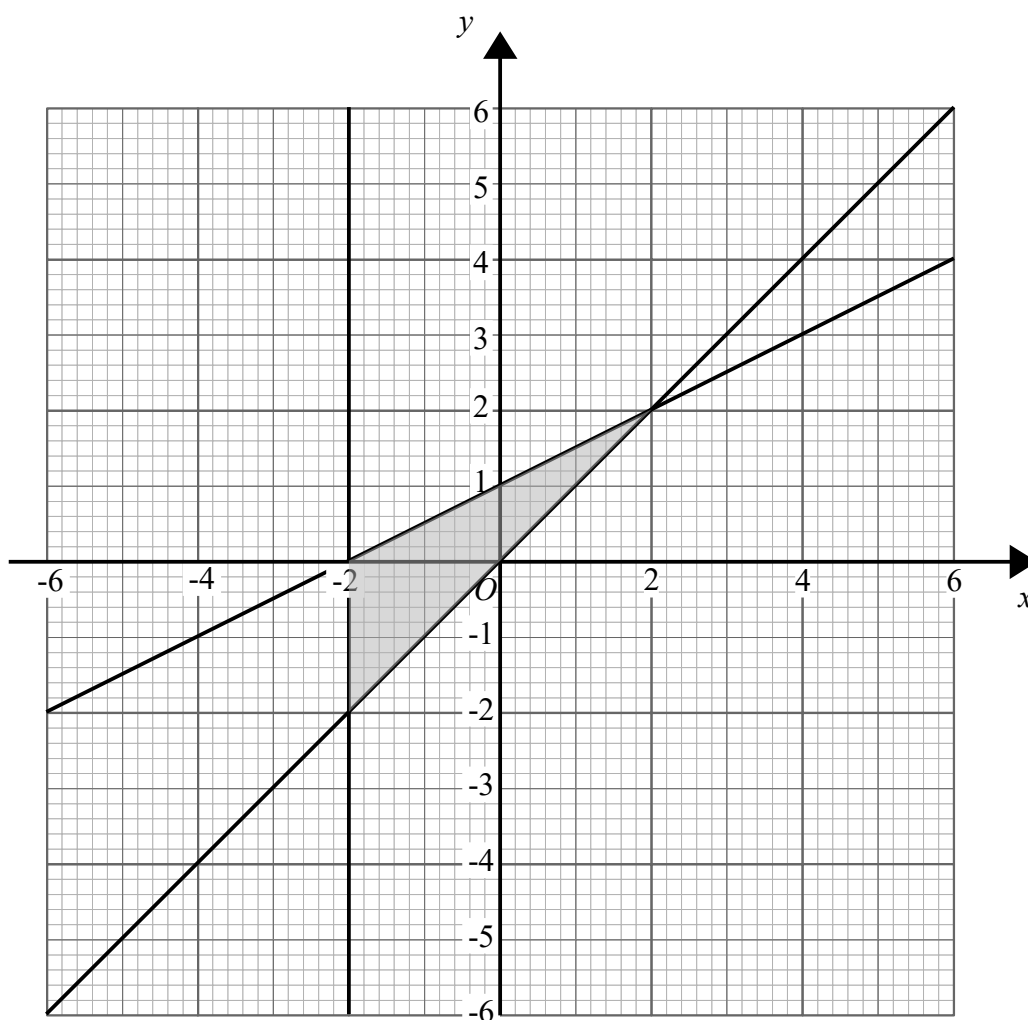


1



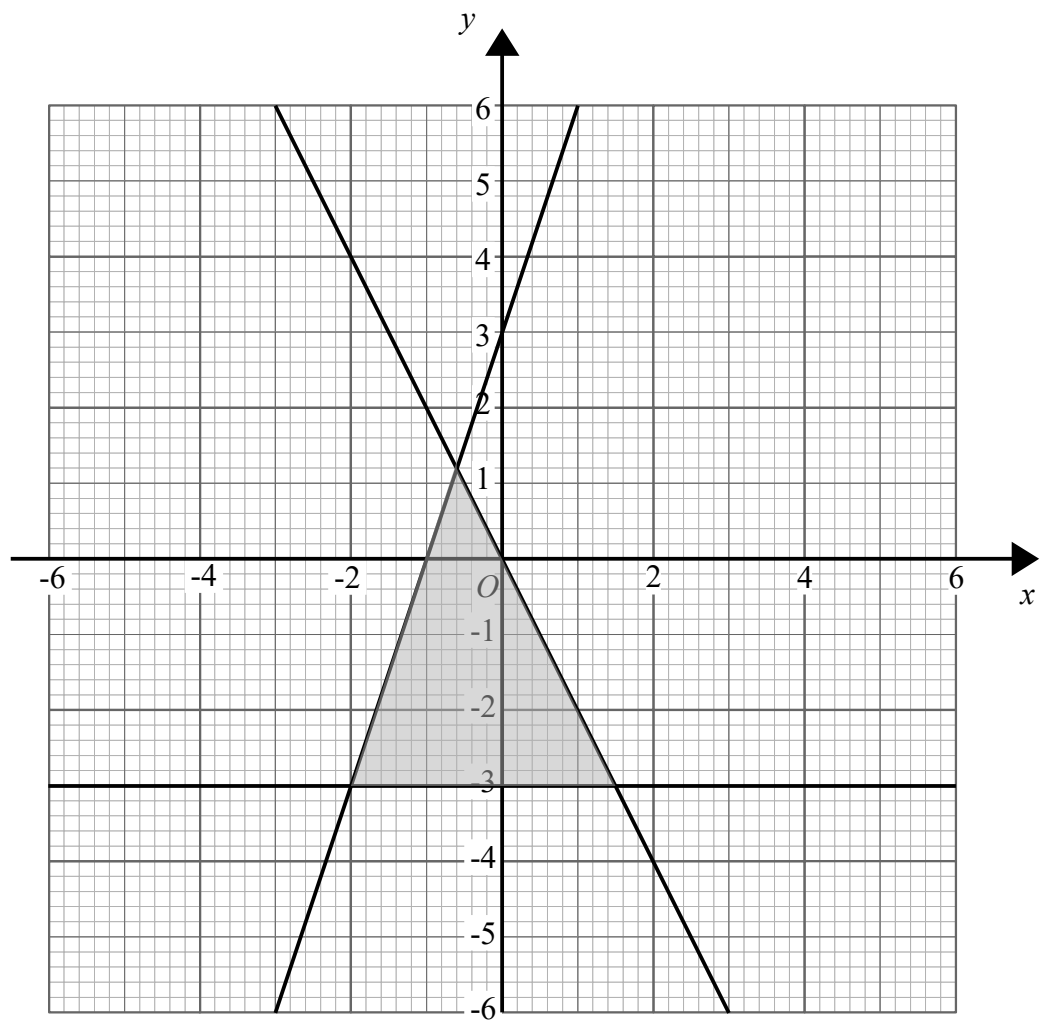
Write down the three inequalities that define the shaded region

.....

.....

.....

(Total for Question 1 is 4 marks)



Write down the three inequalities that define the shaded region

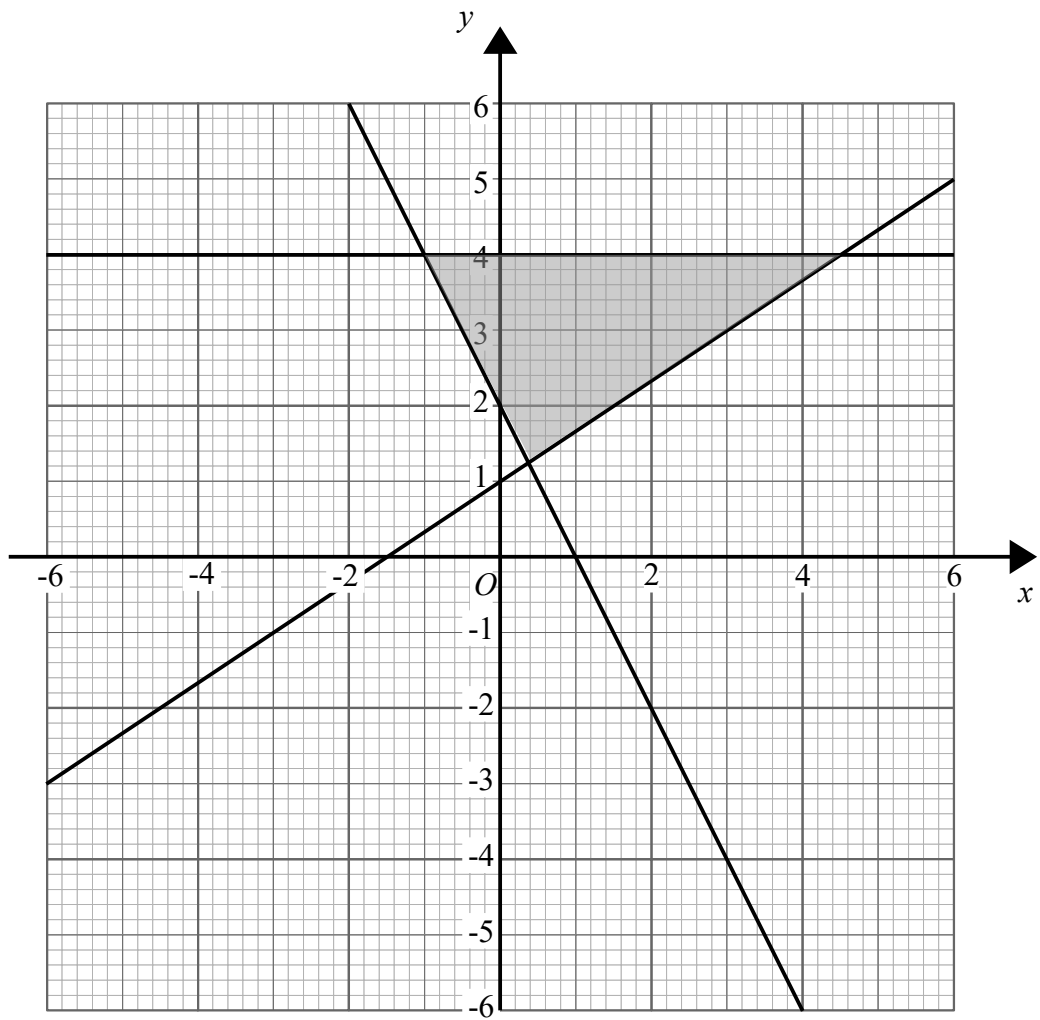
.....

.....

.....

(Total for Question 2 is 4 marks)

3



Write down the three inequalities that define the shaded region

.....

.....

.....

(Total for Question 3 is 4 marks)

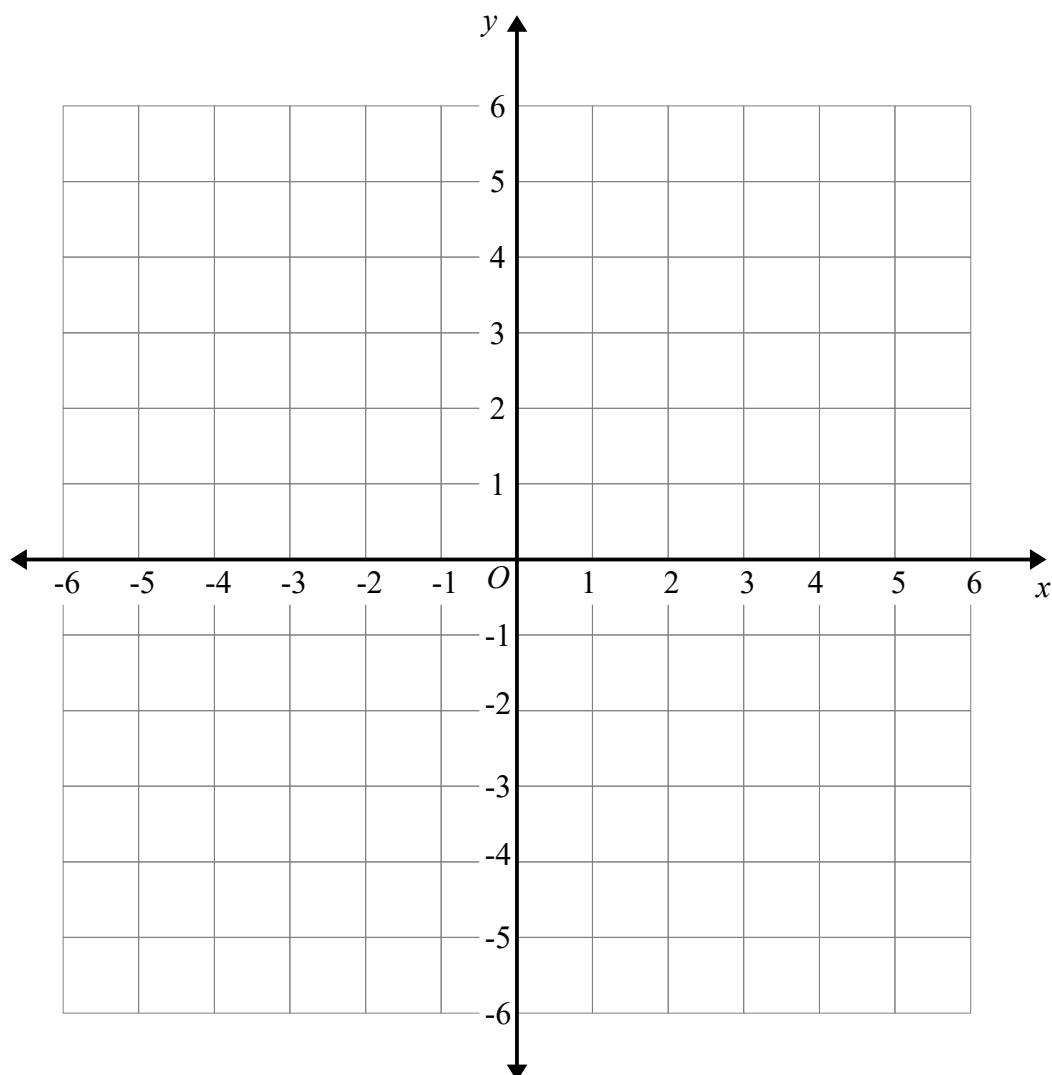
- 4 On the grid shade the region that satisfies all these inequalities

$$x < 3$$

$$y > -2$$

$$y \leq 2x - 1$$

Label the region **R**.



(Total for Question 4 is 3 marks)

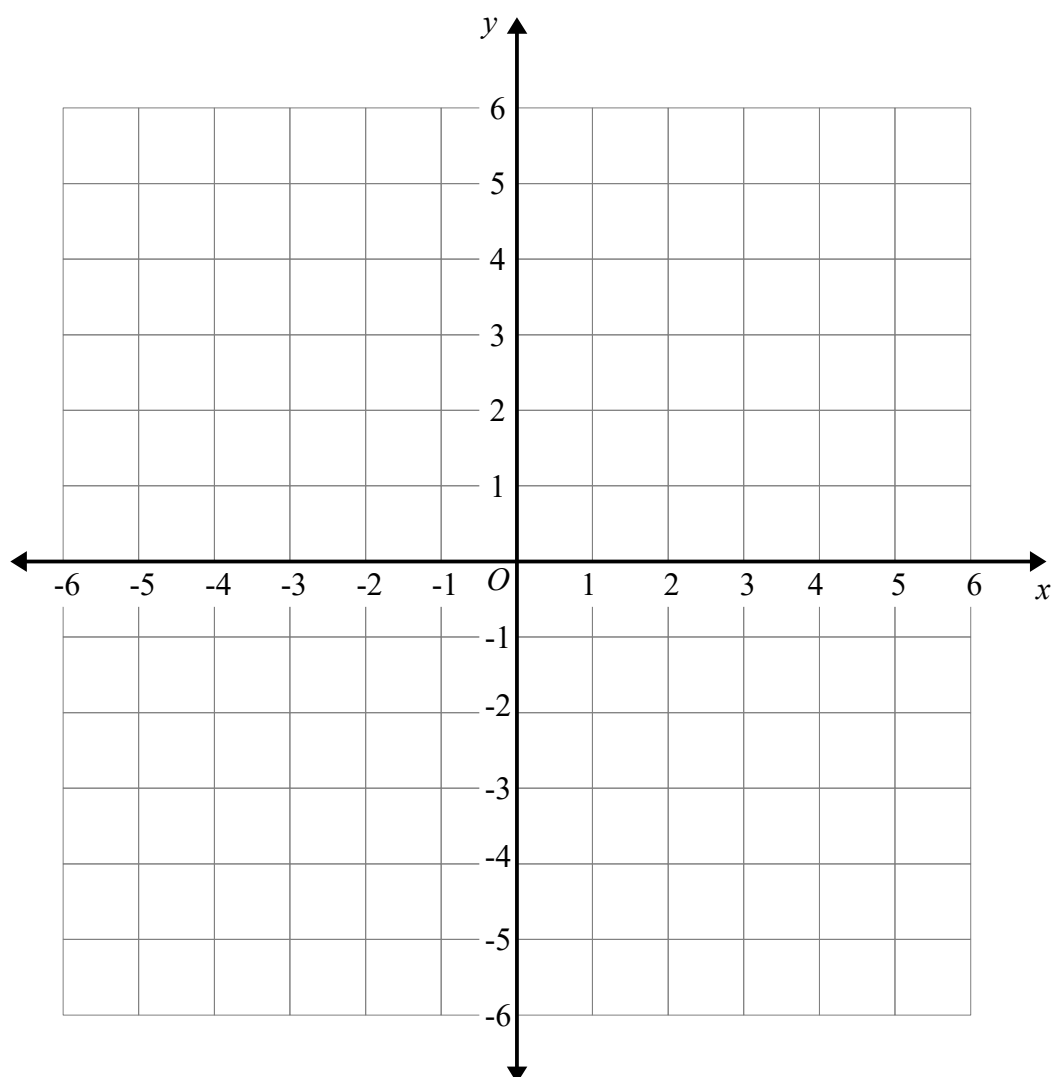
5 On the grid shade the region that satisfies all these inequalities

$$x + y < 4$$

$$y > 2x + 1$$

$$y > -1$$

Label the region **R**.



(Total for Question 5 is 3 marks)

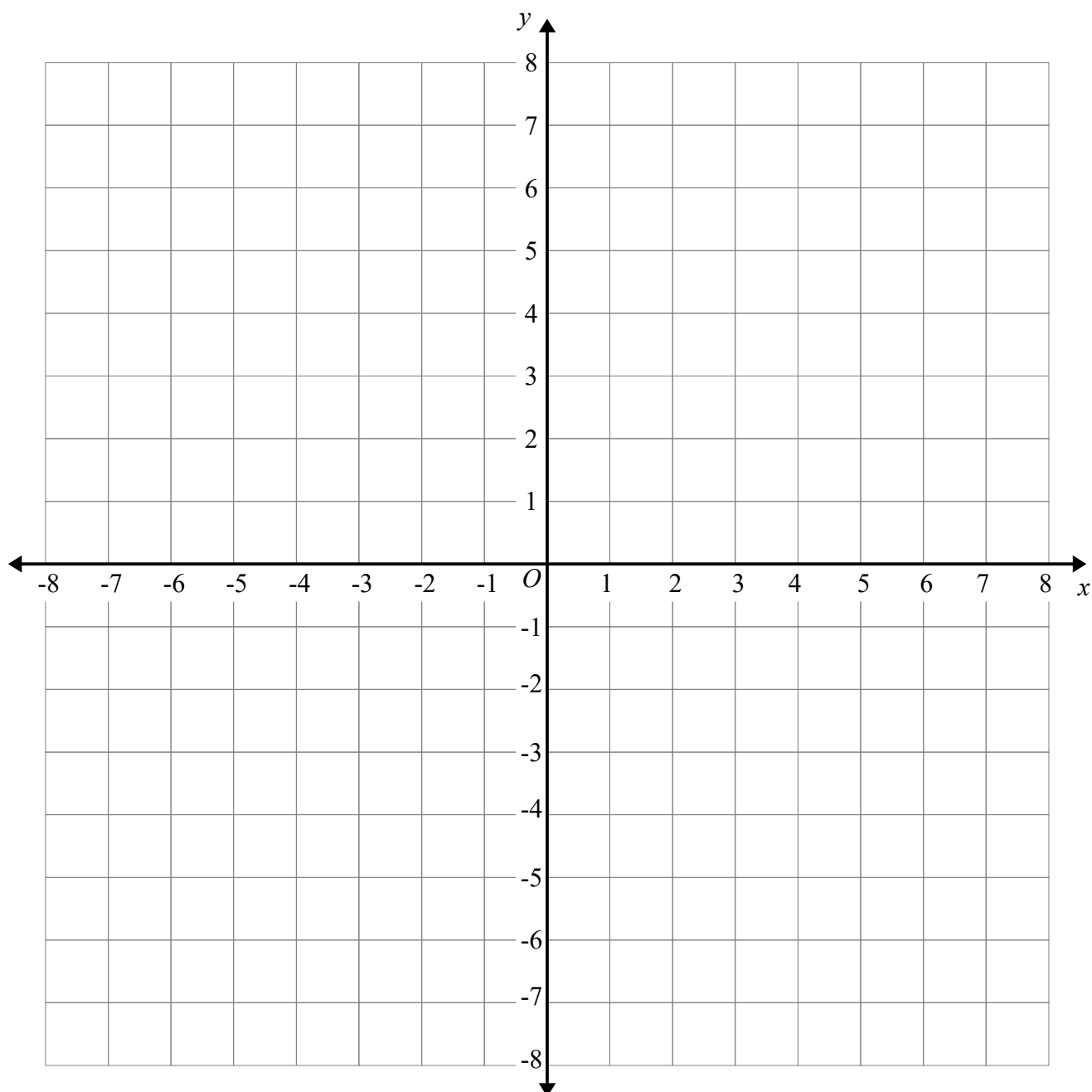
6 On the grid shade the region that satisfies all these inequalities

$$y \geq x - 1$$

$$x \leq 6 - 2y$$

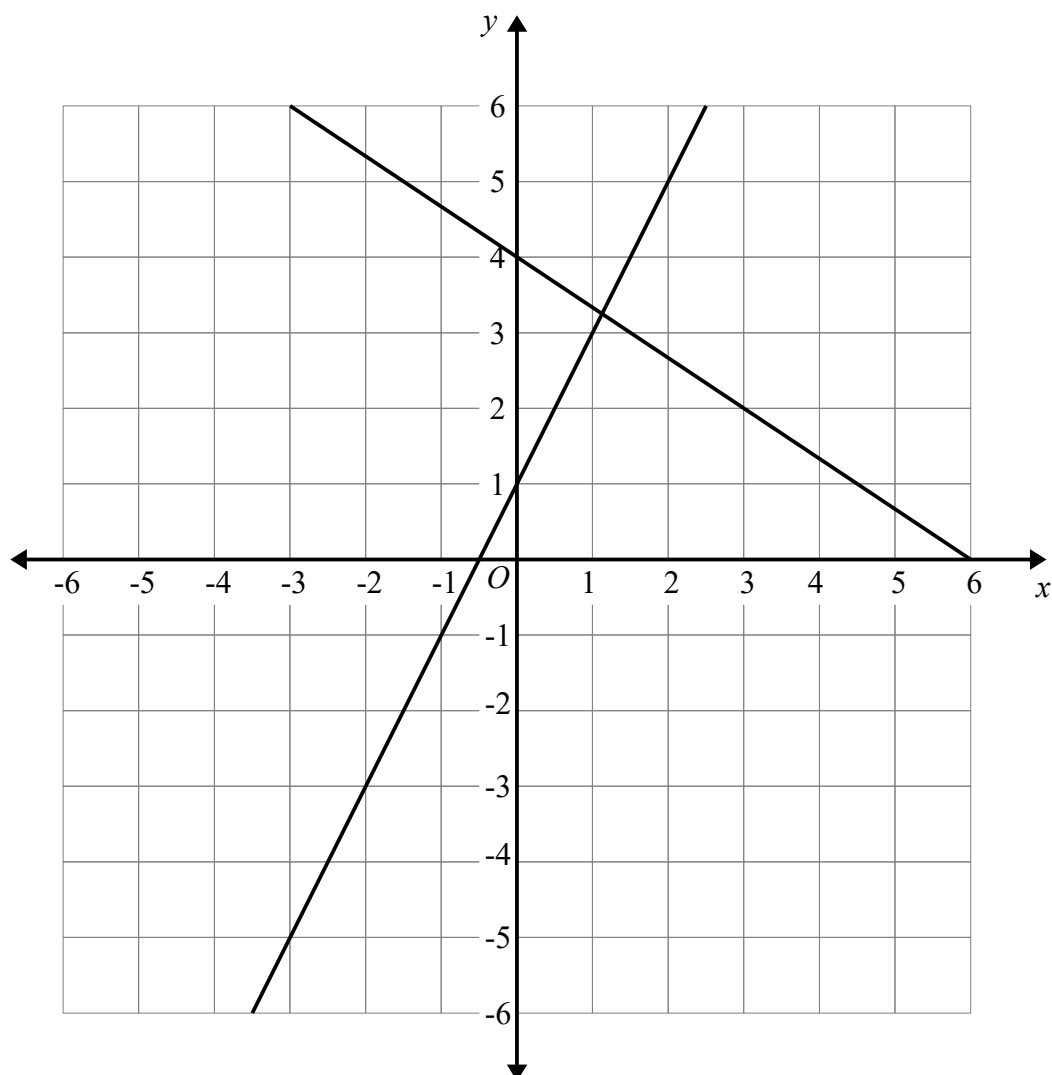
$$x \geq -3$$

Label the region **R**.



(Total for Question 6 is 3 marks)

- 7 The graphs of the straight lines with equations $y = 2x + 1$ and $3y + 2x = 12$ have been drawn on the grid.



x and y are both integers.

Mark with a cross ($\times$) all of the points that satisfies all the inequalities

$$y < 2x + 1$$

$$3y + 2x < 12$$

$$y > 1$$

(Total for Question 7 is 2 marks)