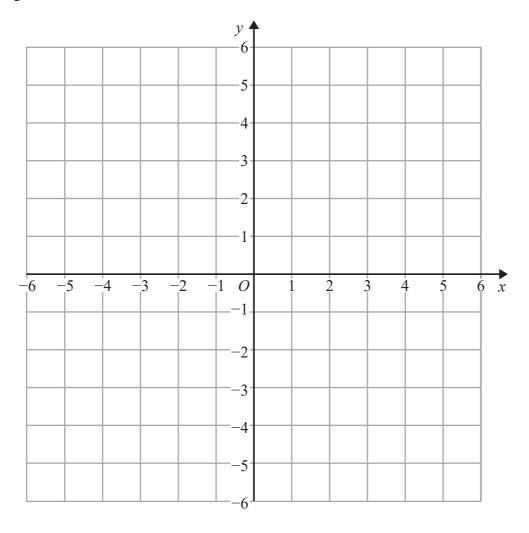
<u>Autumn 2017 Paper 2 Q14</u>

1 On the grid, shade the region that satisfies all these inequalities.

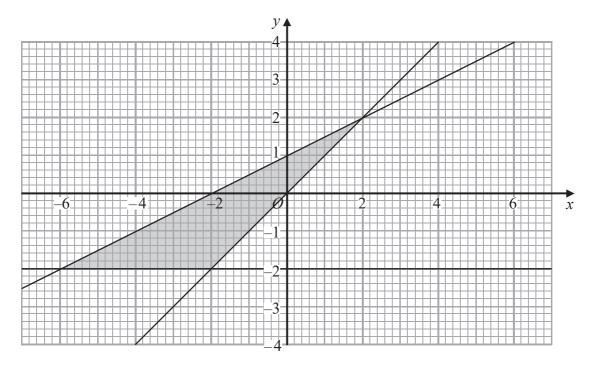
$$y > 1 \qquad \qquad x + y < 5 \qquad \qquad y > 2x$$

Label the region **R**.



(Total for Question 1 is 3 marks)

2



Write down the three inequalities that define the shaded region.

.....

.....

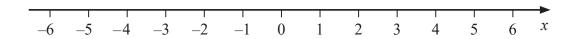
(Total for Question 2 is 4 marks)

Summer 2019 Paper 2 Q1

3 (a) Solve 14n > 11n + 6

(2)

(b) On the number line below, show the set of values of x for which $-2 < x + 3 \le 4$



(3)

(Total for Question 3 is 5 marks)

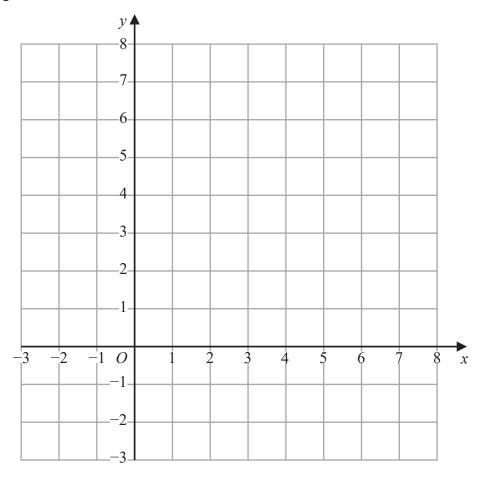
<u>Summer 2020 Paper 3 Q13</u>

4 (a) On the grid show, by shading, the region that satisfies all these inequalities.

$$v \leqslant x + 3$$

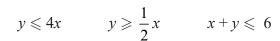
$$x \geqslant 0$$
 $x \leqslant 2$ $y \leqslant x + 3$ $2x + 3y \geqslant 6$

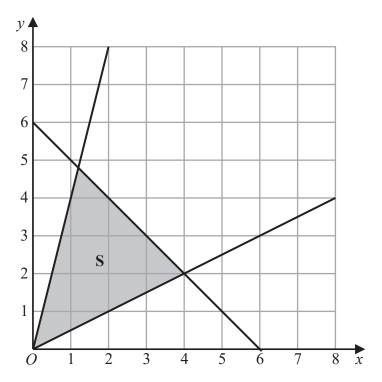
Label the region **R**.



(4)

((b)	The diagram	below shows	the region S	that	satisfies 1	the inec	ualities
١,	(\cup)	The anagram	CCIC III BIIC II B	the region b	tilut	battbiles	tile illet	adiitios





Geoffrey says that the point with coordinates (2, 4) does not satisfy all the inequalities because it does not lie in the shaded region.

Is Geoffrey correct?

You must give a reason for your answer.

(1)

(Total for Question 4 is 5 marks)

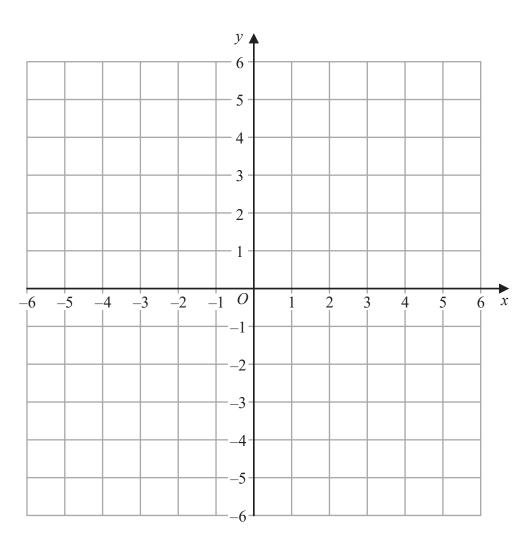
<u>Summer 2021 Paper 1 Q17</u>

5 On the grid show, by shading, the region that satisfies all of these inequalities.

$$2y + 4 < x \qquad \qquad x < 3$$

$$y < 6 - 3x$$

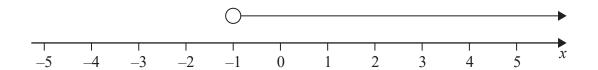
Label the region **R**.



(Total for Question 5 is 3 marks)

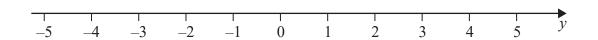
Summer 2021 Paper 2 Q1

6 (a) Write down the inequality shown on this number line.



(1)

(b) On the number line below, show the inequality $-3 \le y < 4$

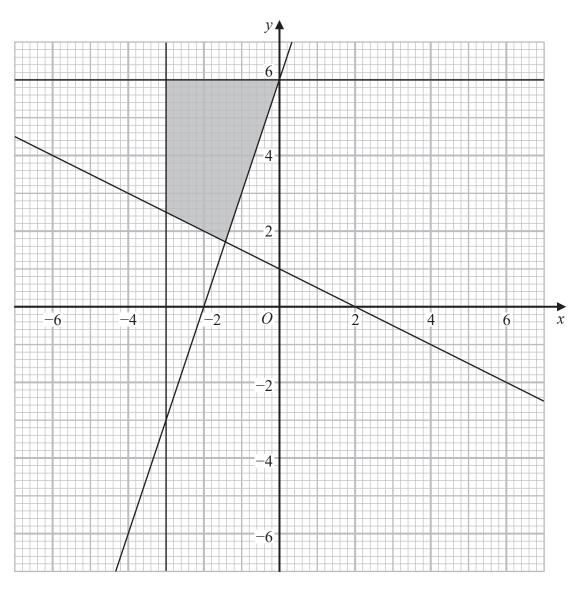


(2)

(Total for Question 6 is 3 marks)

<u>Autumn 2022 Paper 2 Q16</u>

7 The shaded region shown on the grid is bounded by four straight lines.



Find the four inequalities that define the shaded region.

(Total for Question 7 is 4 marks)

www.yesterdaysmathsexam.com						
8 x and y are integers such that	Autumn 2022 Paper 3 Q11					
3 < x < 8 4 < y < 10 and $x + y = 14$						
Find all the possible values of x .						
	(Total for Question 8 is 2 marks)					

9	Solve $7x - 27 < 8$	<u>Summer 2022 Paper 1 Q1</u>
_		(Total for Question 9 is 2 marks)