

Higher Maths Nov 2018 P1 Q1c

(c) (i) Solve $7x - 3 < 29$. [2](ii) What is the greatest integer value of x that satisfies the above inequality? [1]

Higher Maths Sample 1 P2 Q3

(a) Solve the inequality given below. [2]

$$7n < 5n + 11$$

(b) Give the largest integer value for n that satisfies this inequality. [1]

$$n = \dots\dots\dots$$

Higher Maths Summer 2019 P1 Q9

Arthur, Sian and Kezia are all given some £1 coins.

Arthur receives £ n .

Sian is given five times as much money as Arthur.

Kezia receives three times as much money as Arthur, plus an extra £7.

Sian was given less money than Kezia.

(a) Write down an inequality in terms of n that illustrates the fact that Sian received less money than Kezia. [2]

(b) What was the greatest amount of money that Arthur could have been given? [2]

Higher Maths June 2017 P1 Q10*In this question, you will be assessed on the quality of your linguistic and mathematical accuracy in writing.*Rashid owned n sheep.

Eifion had exactly 4 times as many sheep as Rashid.

Rashid buys 17 extra sheep.

Eifion sells 8 of his sheep.

Eifion still has more sheep than Rashid.

Form an inequality, in terms of n .Solve the inequality to find the **least** value of n .

You must show all your working.

[5 + 1 W]

On the graph paper below, draw the region that satisfies **all** of the following inequalities.

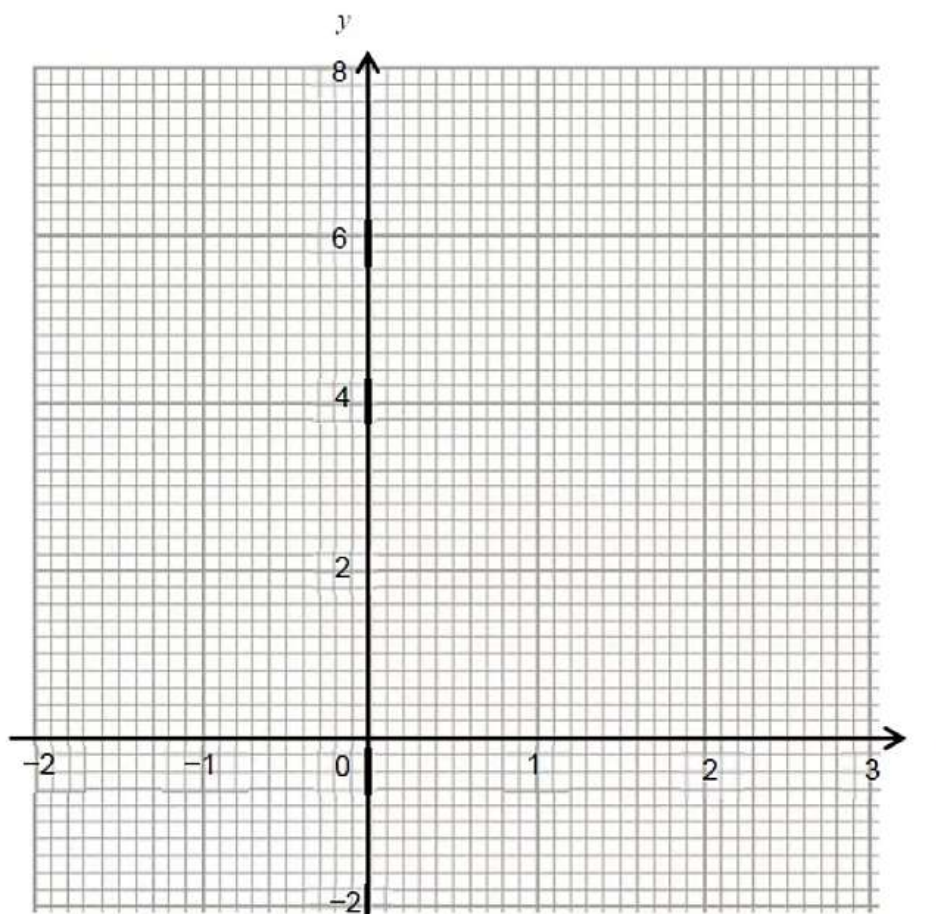
$$x \geq -1$$

$$x + 2y \leq 8$$

$$y \geq 2x + 1$$

Make sure that you clearly indicate the region that represents your answer.

[3]



Higher Maths Summer 2019 P1 Q10

Using the axes below, find the region which satisfies the following inequalities.

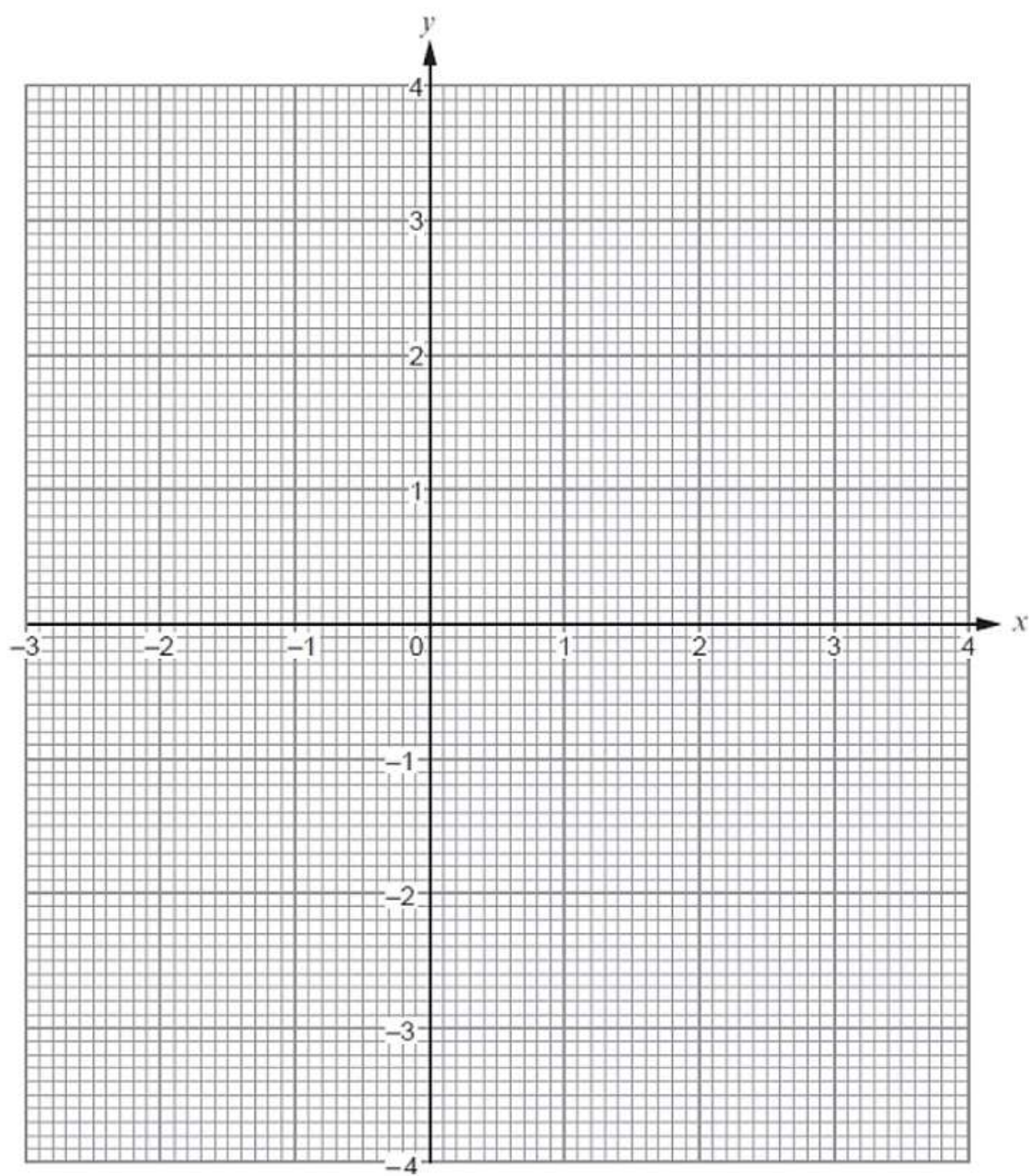
$$x \geq -2$$

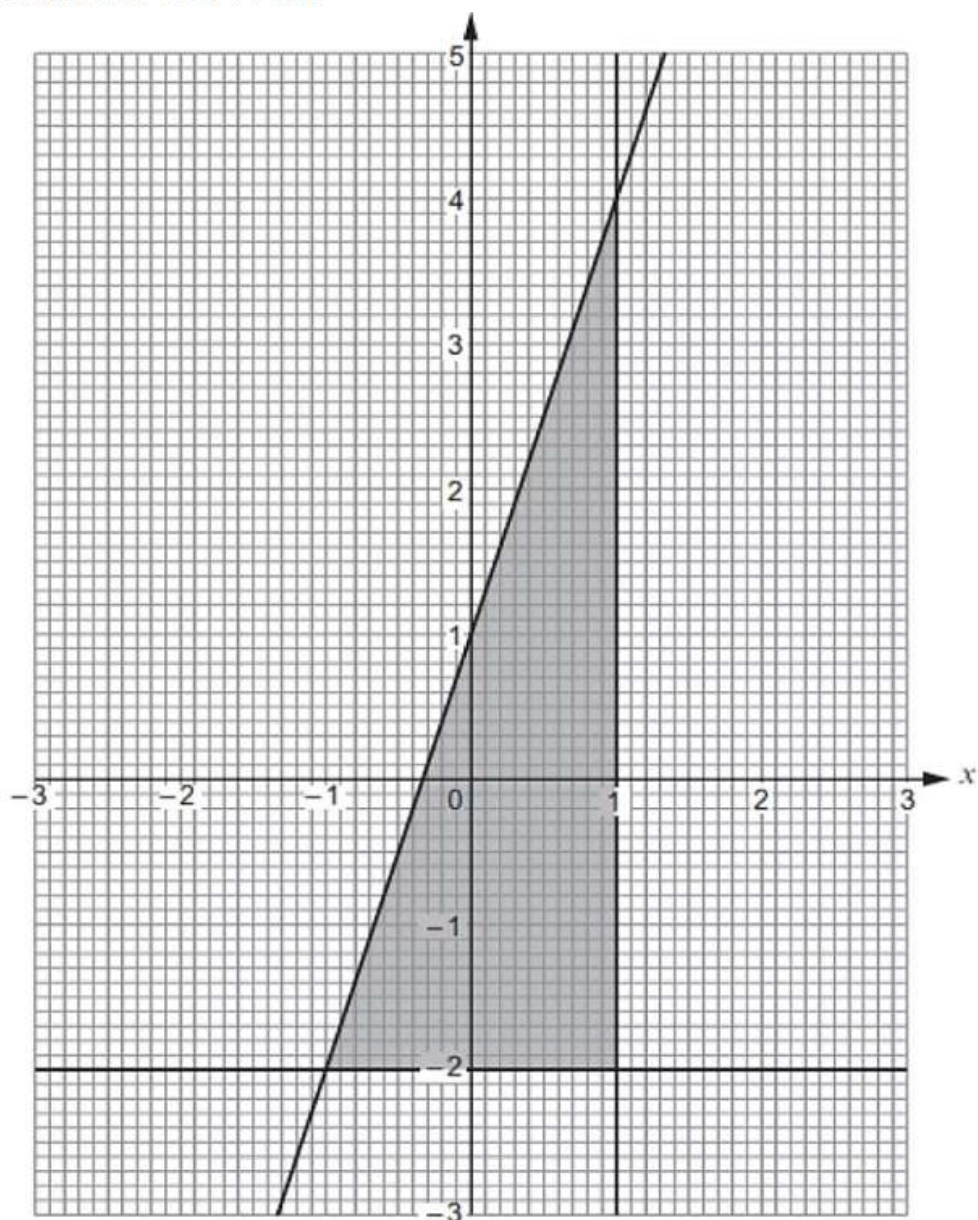
$$y + x \leq 1$$

$$2y \geq x$$

Make sure that you clearly indicate the region that represents your answer.

[3]





Complete the following table to give the set of inequalities that describes the shaded region shown above. [3]

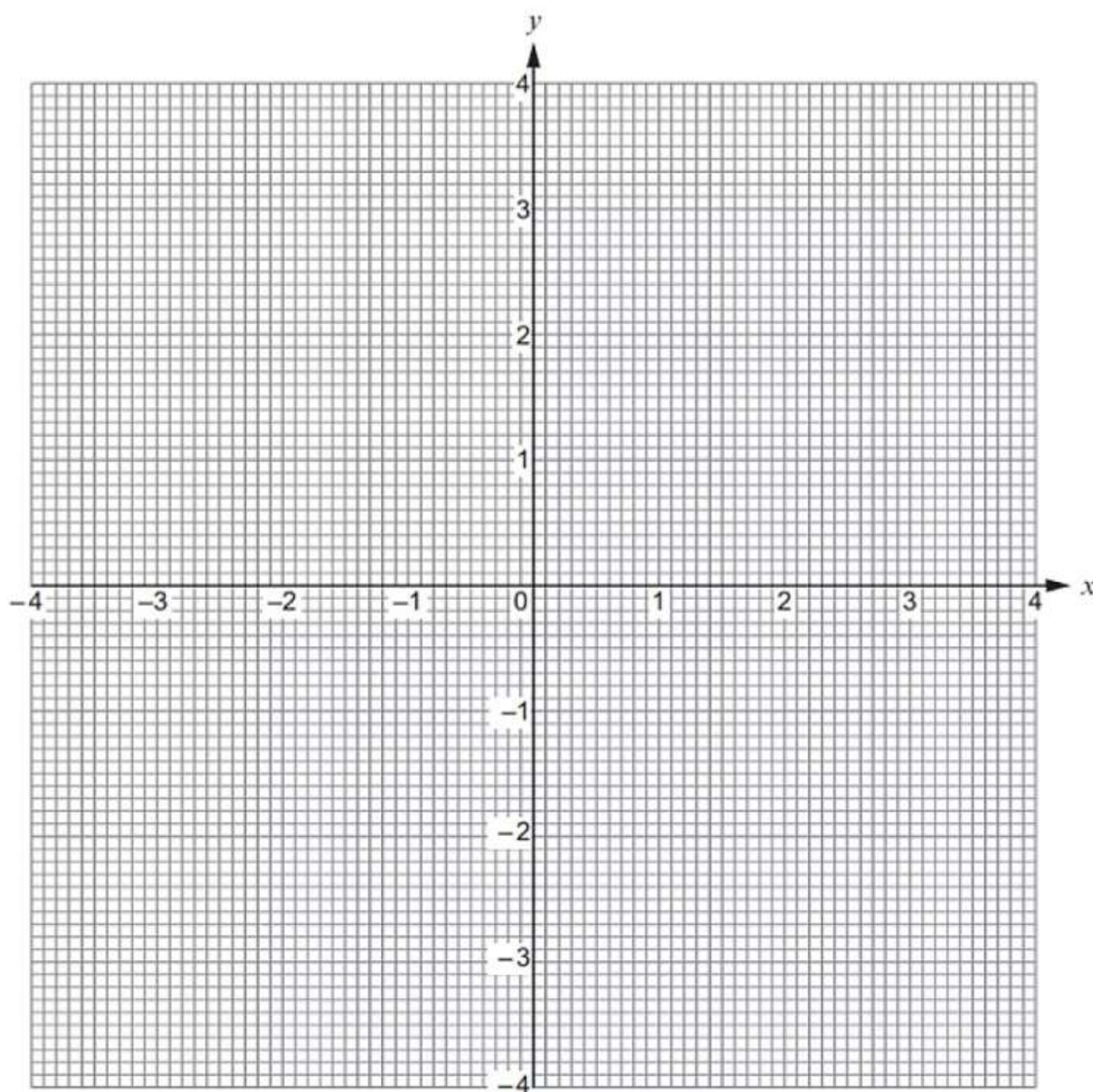
$x \leq 1$

Using the axes below, find the region which satisfies the following inequalities.

$$\begin{aligned}x &\geq -1 \\ y + 2x &\leq 1 \\ y &\geq x\end{aligned}$$

Make sure that you **clearly indicate the region** that represents your answer.

[3]



(a) On the graph paper below, draw the region which satisfies all of the following inequalities.

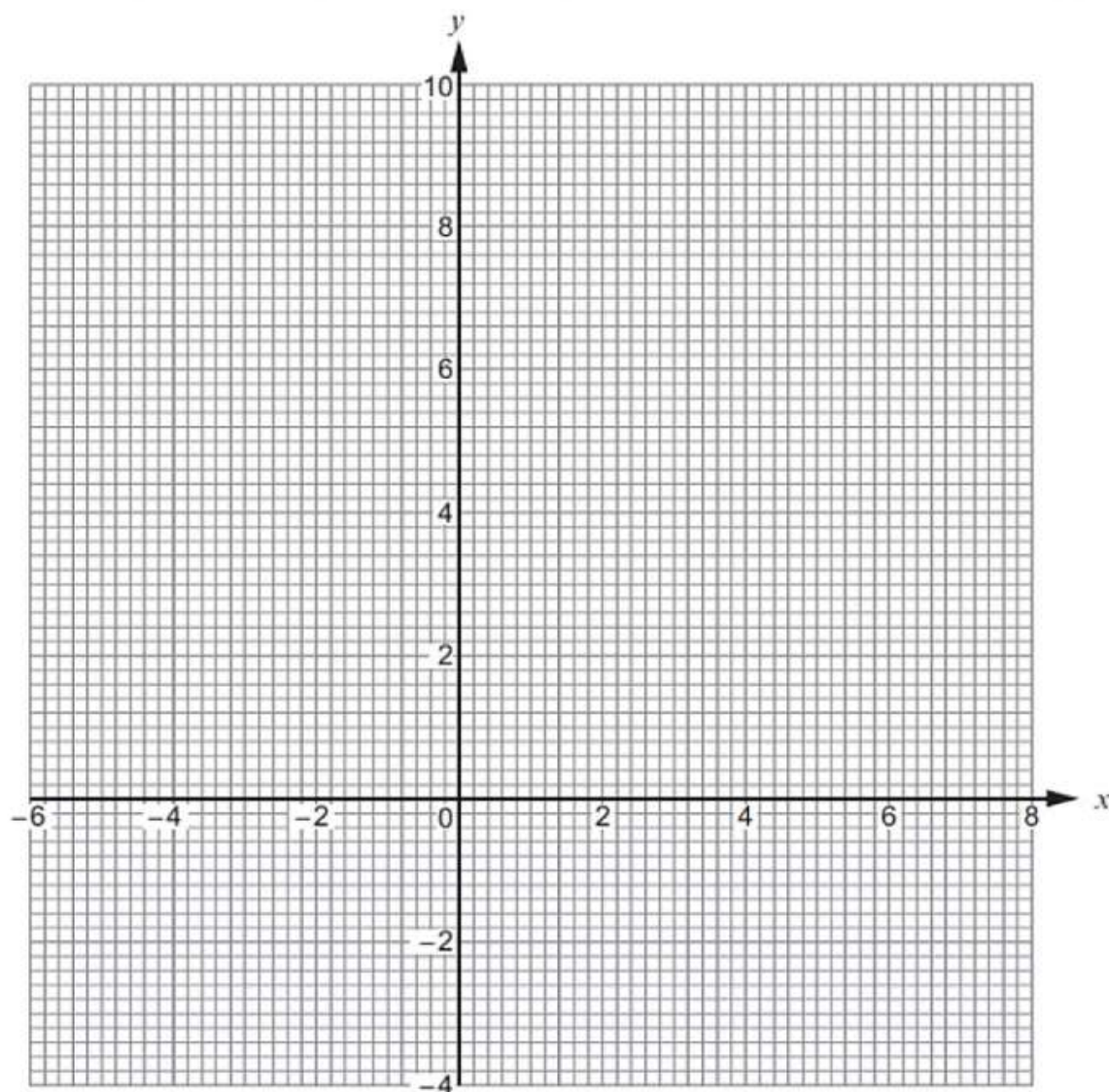
$$x + y \leq 6$$

$$y \geq \frac{x}{2} + 3$$

$$x \geq -2.$$

Clearly indicate the region that represents your answer.

[3]



(b) (i) What is the greatest possible value of x such that all three conditions are met? [1]

$x =$

(ii) What is the greatest possible value of y such that all three conditions are met? [1]