

INEQUALITIES ON GRAPH

Examiner
only
Arholwr
yn unig



(a) Simplify $2a^5b^2 \times 3a^3b$.

[2]

(b) Factorise $3a^2 - 6ac$.

[2]

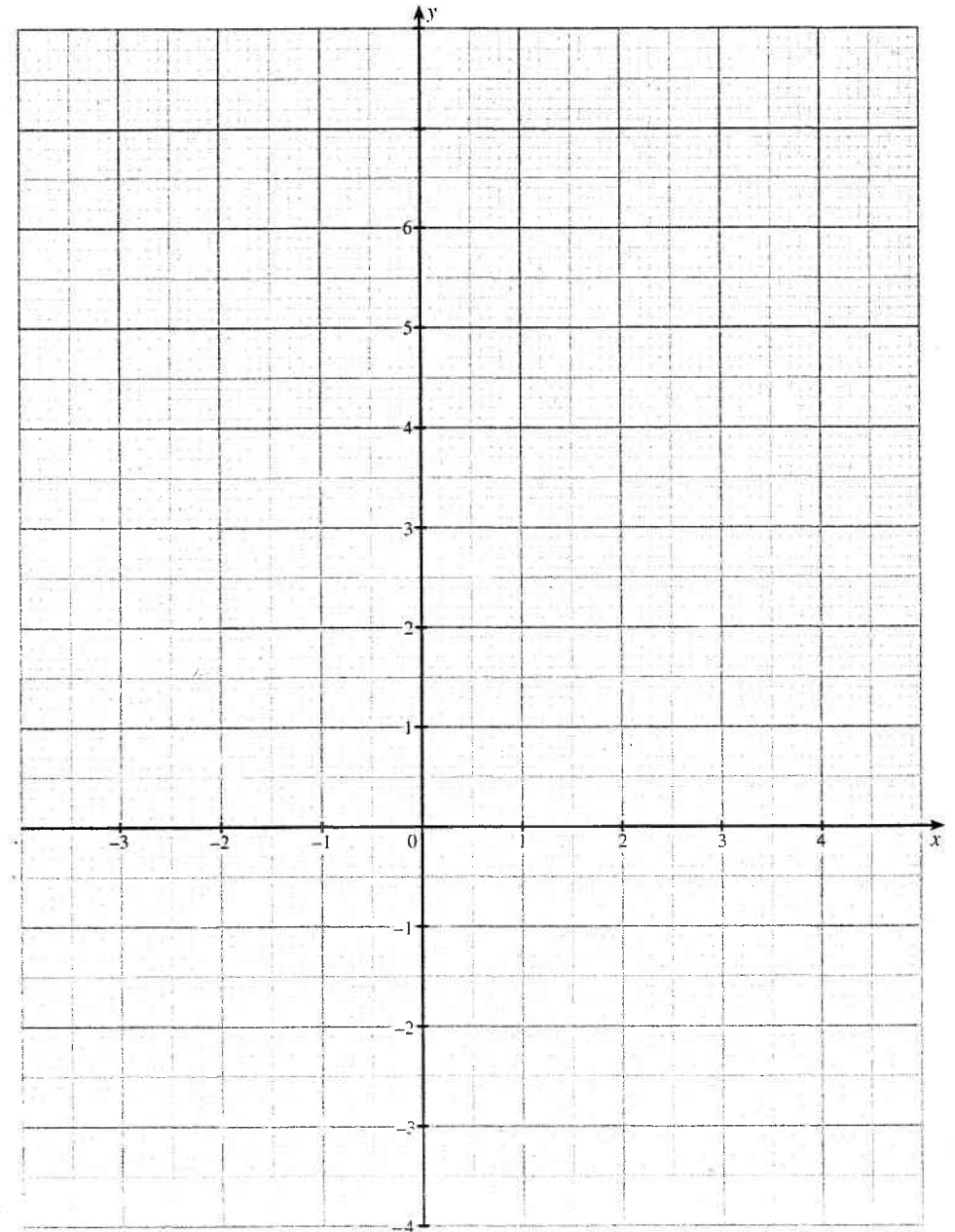


On the graph paper provided on the next page, draw the region which satisfies all of the following inequalities.

$$\begin{aligned} x &\geq -3 \\ y &\geq 2x - 1 \\ y &\geq 0 \\ \text{and } y &\leq 3 - x \end{aligned}$$

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

[4]



01848

Turn over.

2

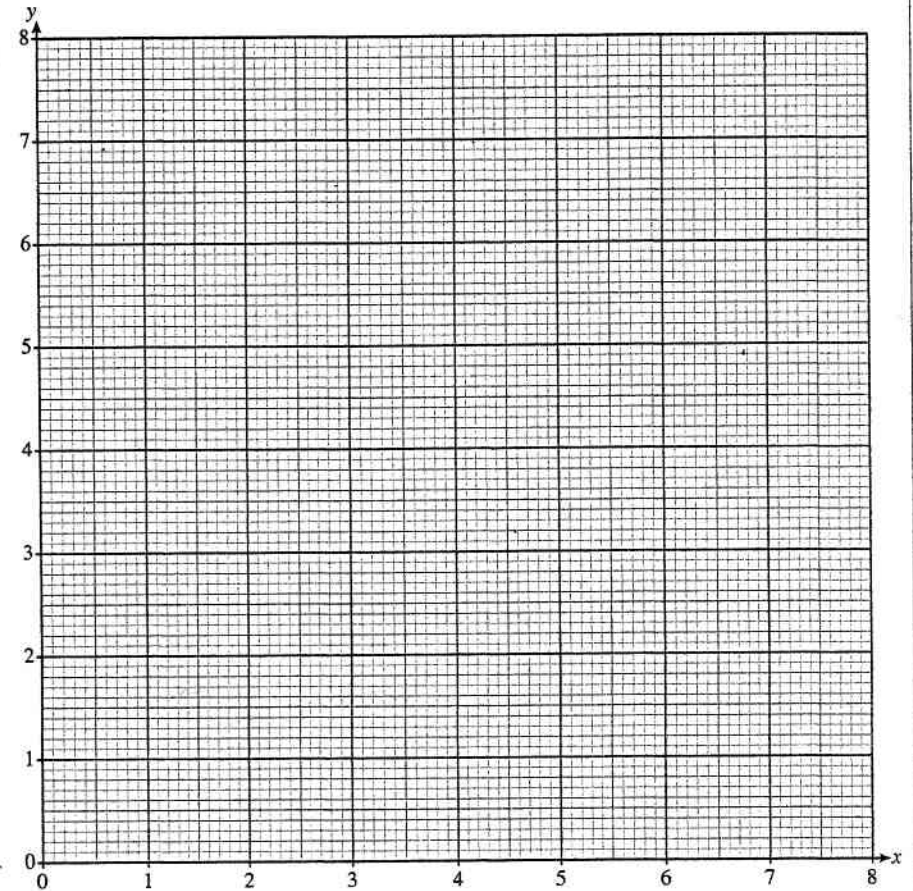
On the graph paper opposite, draw the region which satisfies all of the following inequalities.

$$\begin{aligned}x + y &\leq 8 \\y &\geq 2x - 1 \\x &\geq 0\end{aligned}$$

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

Examiner
only
Arholwr
yn unig

[3]



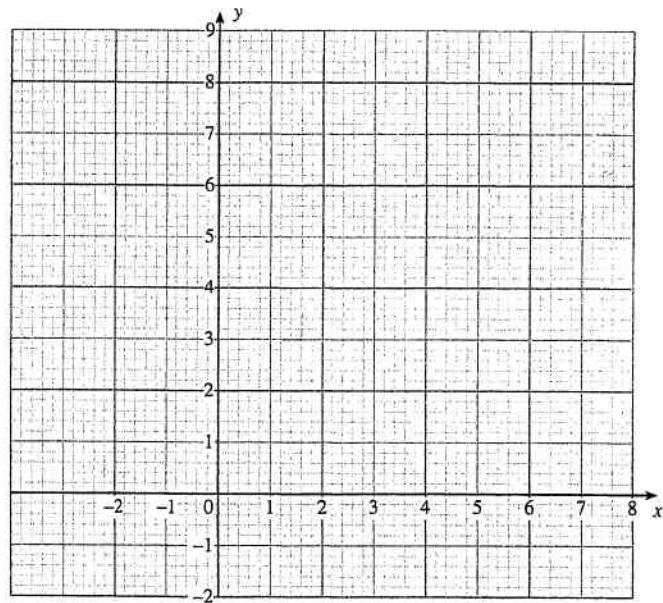
Examiner
only
Arholwr
yn unig

- ③ On the graph paper provided, draw the region which satisfies **all** of the following inequalities.

$$\begin{aligned}x + y &\leq 8 \\ y &\leq 4x + 1 \\ x &\geq 1 \\ y &\geq 2\end{aligned}$$

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

[4]



- ④ On the graph paper below, draw the region which satisfies **all** of the following inequalities.

$$\begin{aligned}y &\leq 5 \\ y &\geq x - 8 \\ x &\leq 8 \\ y &\geq -5x\end{aligned}$$

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

[4]

