

WJEC MATHEMATICS

HIGHER
3 TIER TOPICS

SHADED FUNCTIONS

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Spec 2 – Maths – P1

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

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

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

[3]

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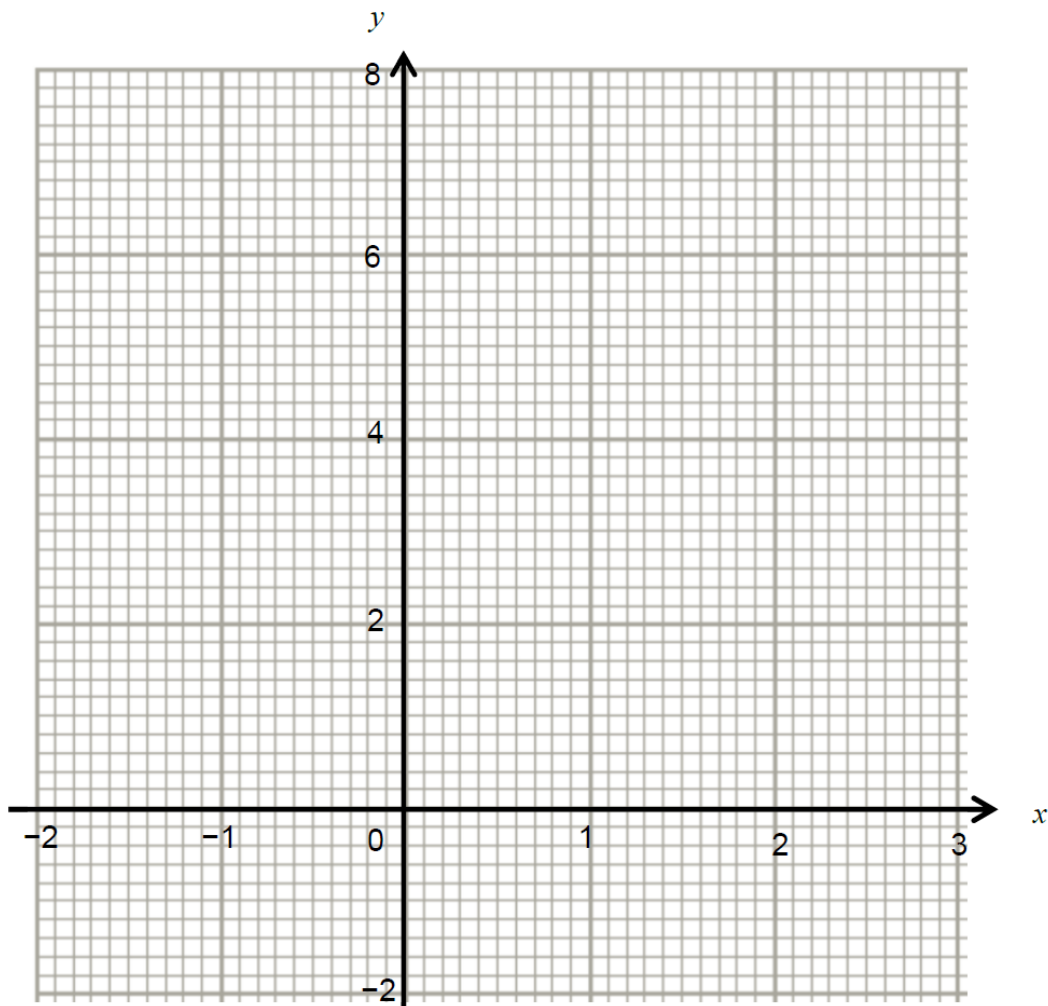
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June 2017 – Maths – P1

13. (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.

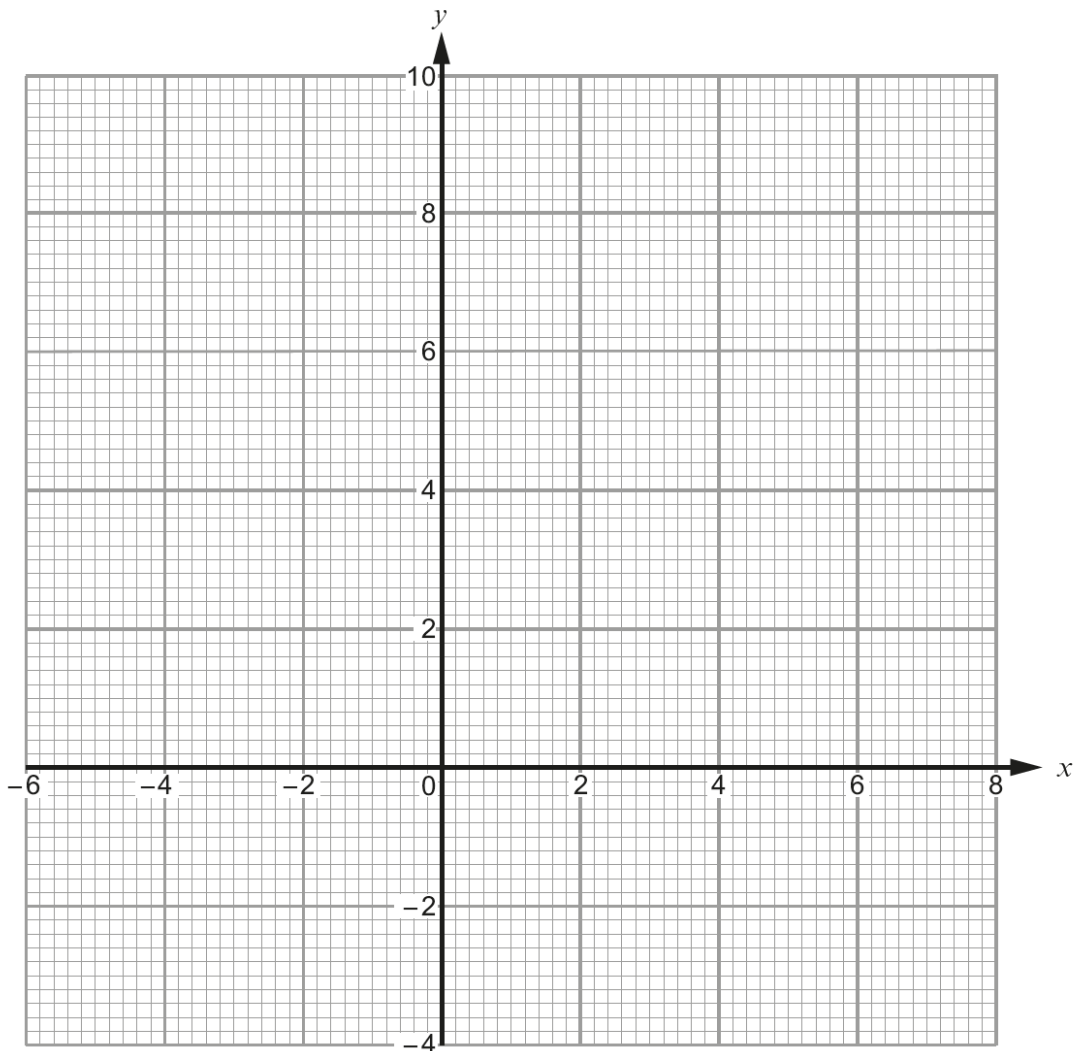
[3]

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(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]

$y =$