

Answer all ELEVEN questions.

Write your answers in the spaces provided.

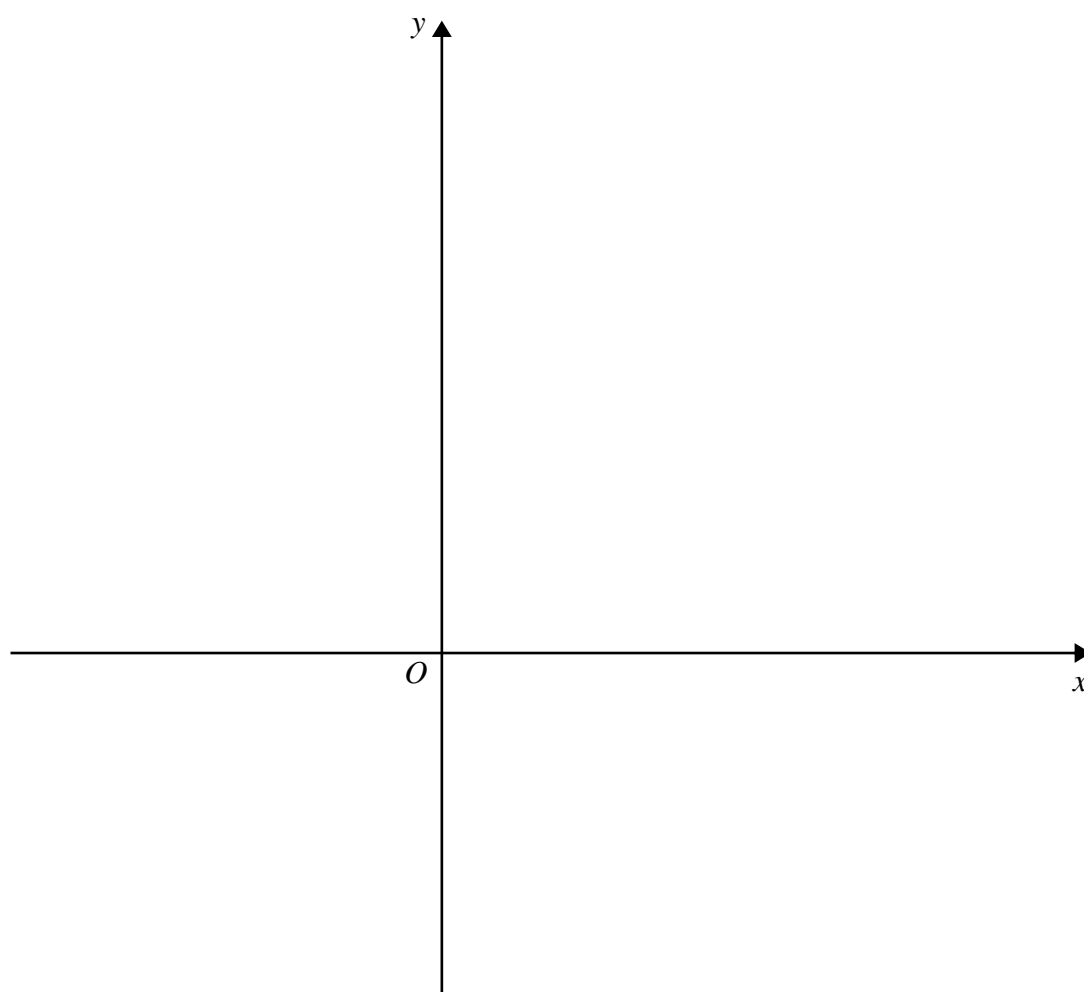
You must write down all the stages in your working.

- 1** (a) On the axes below, sketch the lines with equations $2x + 3y = 8$ and $2y = 4x + 1$

On your sketch, show the coordinates of the points where the lines cross the coordinate axes. (2)

- (b) Show, by shading on your sketch, the region R defined by the inequalities

$$2x + 3y \leq 8 \quad 2y \leq 4x + 1 \quad y \geq 0 \quad x \leq 2 \quad (2)$$



(Total for Question 1 is 4 marks)