Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

(a) On the grid below, draw the graph of the line with equation

(i)
$$4x + 5y = 20$$

(ii)
$$3y - 4x = -12$$

(2)

(b) Show, by shading on the grid, the region R defined by the inequalities

$$4x + 5y \leq 20$$

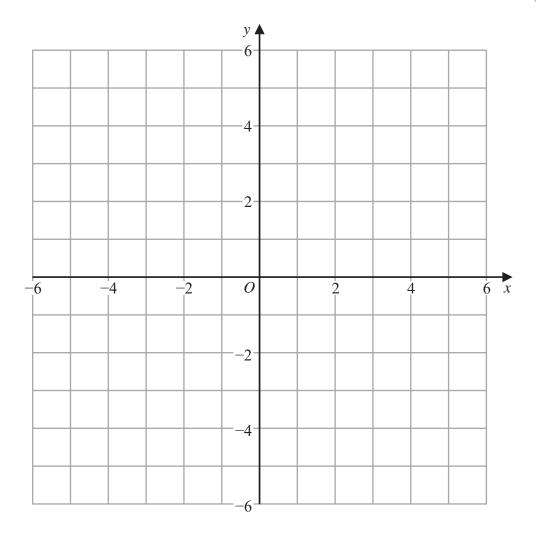
$$4x + 5y \leqslant 20$$
 $3y - 4x \geqslant -12$ $y \leqslant 3$ $x \geqslant 1$

$$v \leq 3$$

$$x \geqslant 1$$

Label the region R.

(2)



Turn over for a spare grid if you need to redraw your graph.



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Question 1 continued

