

GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

(Level 6 - 7)

Graphical Inequalities

Please write clearly in block capitals

Forename:	
Surname:	

Materials

For this paper you must have:

· mathematical instruments



You must not use a calculator.

Instructions

- · Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper.
 These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

On the grid, draw the straight lines and shade the region that satisfies the following (Level 6) inequalities:

$$y \le 4$$

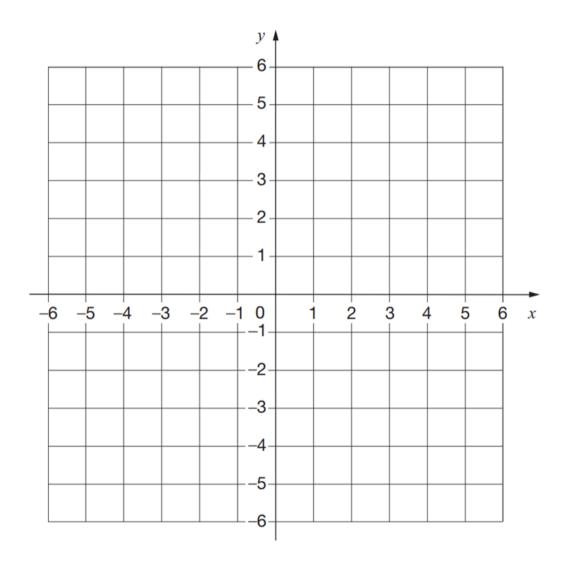
$$y \ge -2$$

$$x \ge -3$$

$$x \le 1$$

Label the region R.

[2 marks]



Turn over for next question

2

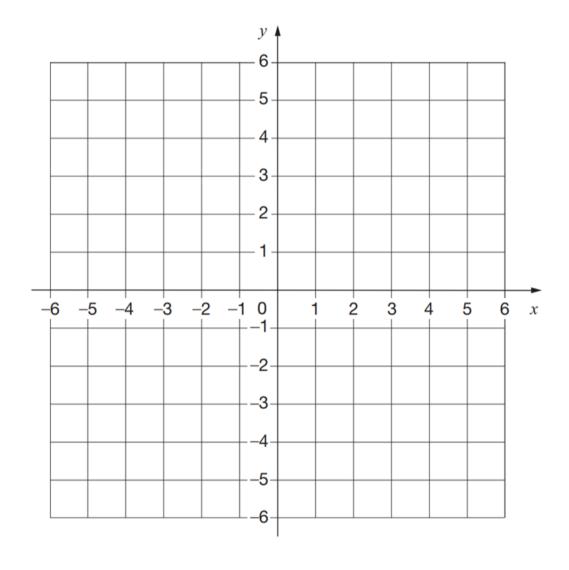
Turn over ▶

2 On the grid, draw the straight lines and shade the region that satisfies the following (Level 6) inequalities:

$$y > 4x - 3$$

Label the region R.

[3 marks]



Turn over for next question

3

On the grid, draw the straight lines and shade the region that satisfies the following (Level 6) inequalities:

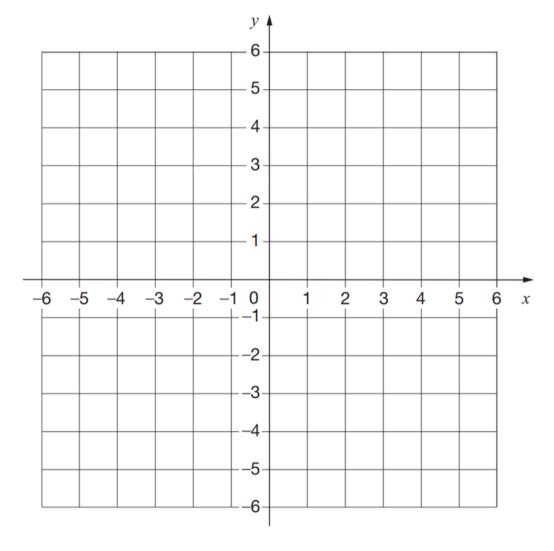
$$y \le x + 1$$

$$y > -3$$

$$x \le 4$$

Label the region R.

[3 marks]



Turn over for next question

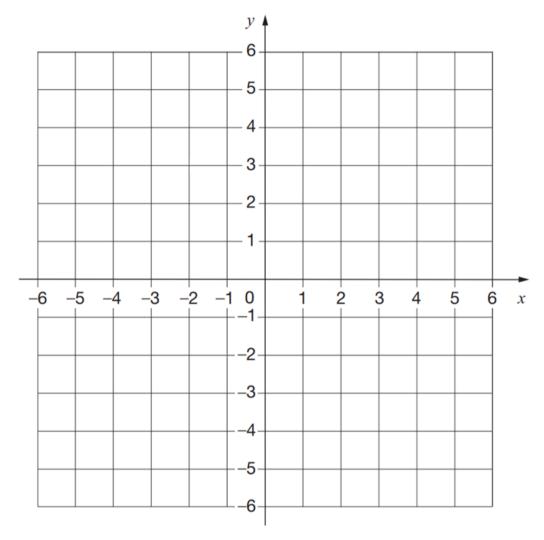
3

4 On the grid, draw the straight lines and shade the region that satisfies the following (Level 6) inequality

$$x + 3y \le -12$$

Label the region R.

[3 marks]





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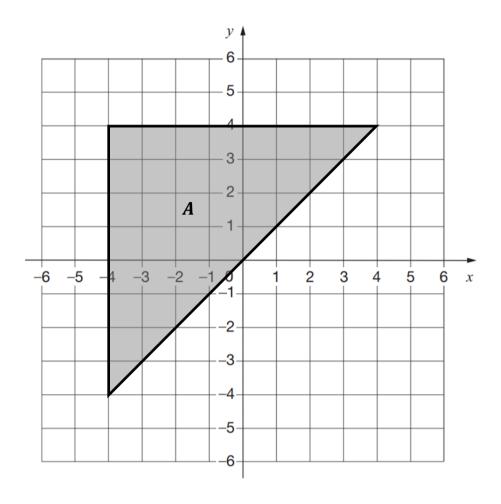
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5 Below is a graph showing the shaded region A.

(Level 7)



Find the three inequalities which satisfy the shaded region A.

[3 marks]

Inequality 1:

Inequality 2:

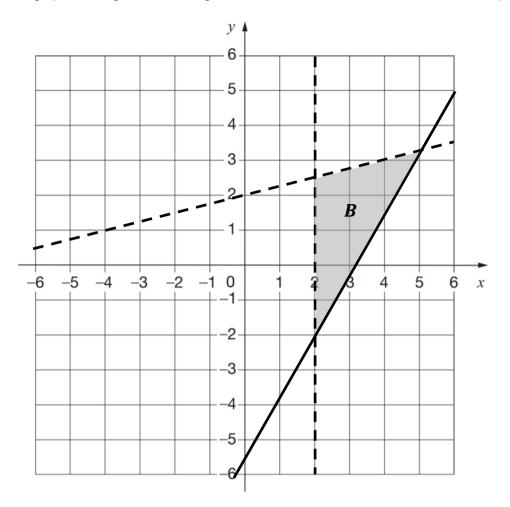
Inequality 3:

Turn over for next question

Turn over ►

6 Below is a graph showing the shaded region B.

(Level 7)



Find the three inequalities which satisfy the shaded region B.

[3 marks]

		_
		_
		_

Inequality 1:		

Inequality 3:

End of questions

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