1	See appendix 1	3	M1	for $y = x$ correctly drawn
			M1	for $x = 4$ and $y = -2$ correctly
				drawn
		Correct region identified	A1	for correct region identified region may be shaded or left unshaded Condone missing label if region is clear and no contradictory labels
				Total 3 marks

2 (a)		-1, 0, 1, 2, 3, 4	2	B2	B1 for -2, -1, 0, 1, 2, 3, 4
					or -1, 0, 1, 2, 3
(b)		$y \le 6$ $x + y \ge 5$ $y \ge x - 3$	2		B2 for 3 correct inequalities B1 for 2 correct inequalities (In both cases allow $<$ in place of \le , and $>$ in place of \ge)
					Total 4 marks

3	$y \ge 1$ oe $x \le 3$ oe $y \le 3x - 2$	3	B1 B1 B1	Condone $<$ and $>$ in place of \le and \ge throughout. SC B1 if no marks awarded, recognition of lines $x = 3$ and $y = 1$. Allow incorrect inequality and condone use of equals signs eg $y < 1, x = 3$ may be seen on diagram.
				Total 3 marks

4	(a)(i)	7	Correct line	1	B1	For $x = 1.5$ drawn
	(ii)		Correct line	1	B1	For $y = x$ drawn
	(iii)	5 4 3 2 1 0 1 - 2 3 4 5 6 7 5 6	Correct line	1	B1	For $x + y = 6$ drawn
	(b)		Correct region	1	B1	dep on B3 for correctly shading the region R accept unlabelled or unshaded if clear. Shading can be 'in' or 'out'.
						Total 4 marks

5	(a)(i)	gh 2522	3	B1	y = 1 drawn
	(ii)	7 2049=7		B1	x = 2 drawn
	(iii)	6		В1	x + y = 7 drawn
		Line length 2cm + but shaded area must be enclosed for the mark in (b)			Allow dashed lines or solid lines for graphs condone lack of labels if unambiguous
	(b)		1	B1	correct region shaded – shaded in or out – labelled R or clear intention to be the required region (ft only for one vertical line, one horizontal line and one line with a negative gradient)
					Total 4 marks

6	(b)	Lines (solid or dashed) $x = 6$ and $y = 2$ drawn		3	B1 The lines $x = 6$ and $y = 2$ should extend far enough to intersect with each other.
		Line (solid or dashed) $y = x + 1$ drawn			B1 The line should extend from at least $x = 1$ to $x = 6$ or far enough to intersect with their horizontal and vertical lines.
		Region R shown (shaded or not shaded)	Correct region identified		B1 dep on B2

7 (b)	$y \ge 2$ $x \le 6$ $y \le x$	3	B3 for all 3 correct Allow $2 \le y$, $6 \ge x$ and $x \ge y$ B2 for 2 correct B1 for 1 correct Allow $<$ and $>$ signs
			SCB2: $y \le 2$, $y \ge x$ and $x \ge 6$ (for all 3) Allow < and > signs

8		$x \le 1$	4	B1	accept $x < 1$
		$y \ge -2$		B1	accept $y > -2$
	y = 2x + c or y = mx + 4			M1	allow = or $<$ or \le or \ge or \ge
	Correct answer scores full marks (unless from obvious incorrect working)	$y \le 2x + 4$		A1	oe, allow $y < 2x + 4$ oe
					SCB2 for the correct inequalities with all inequality
					signs the wrong way round
					Total 4 marks