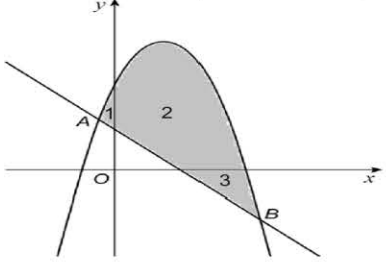
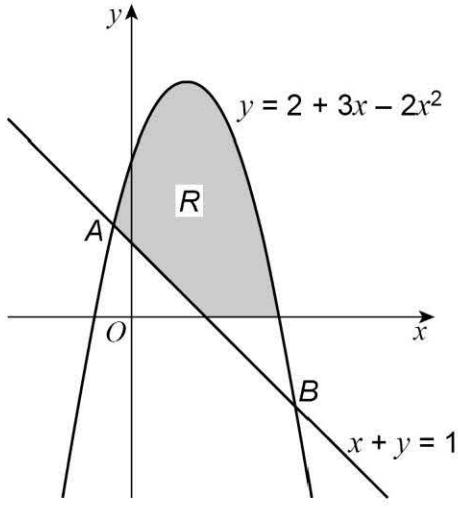


Q	Marking instructions	AO	Marks	Typical solution
7(a)	Shades two of regions 1, 2 or 3 only or shades one of region 1 or 2 or 3 only or shades regions 1, 2 and 3 only 	1.1a	M1	
	Shades the correct regions 1 and 2 only	2.2a	R1	
	Condone missing label R			
	Subtotal		2	

Q	Marking instructions	AO	Marks	Typical solution
7(b)	Eliminates y or x correctly to obtain a quadratic in x or y	1.1a	M1	$1 - x = 2 + 3x - 2x^2$ $2x^2 - 4x - 1 = 0$ $x = \frac{2 - \sqrt{6}}{2}$ $y = \frac{\sqrt{6}}{2}$ So A $\left(\frac{2 - \sqrt{6}}{2}, \frac{\sqrt{6}}{2} \right)$
	Obtains $x = \frac{2 - \sqrt{6}}{2}$ or $\frac{2 \pm \sqrt{6}}{2}$ Accept AWFW $[-0.225, -0.22]$ or obtains $y = \frac{\sqrt{6}}{2}$ or $\pm \frac{\sqrt{6}}{2}$ Accept AWFW $[1.22, 1.225]$ May be unsimplified	1.1b	A1	
	Obtains $\left(\frac{2 - \sqrt{6}}{2}, \frac{\sqrt{6}}{2} \right)$ Accept $x = \frac{2 - \sqrt{6}}{2}$ and $y = \frac{\sqrt{6}}{2}$ ISW Must be simplified	1.1b	A1	
	Subtotal		3	

	Question 7 Total		5	
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