

Q	Marking instructions	AO	Marks	Typical solution
5(a)	Draws a correctly orientated cubic graph	1.1b	B1	<p>$y = 0$ at 3 and a (twice)</p>
	Draws a graph cutting x axis at $(3, 0)$ labelled. Condone omission of 0	1.1b	B1	
	Draws a graph meeting x axis at $(a, 0)$ labelled. Condone omission of 0	2.2a	B1	
	Draws a graph cutting y axis at $(0, 3a^2)$ labelled. Condone omission of 0	1.1b	B1	
	Subtotal		4	

Q	Marking instructions	AO	Marks	Typical solution
5(b)	Deduces that $x < a$ or $a < x < 3$ OE	2.2a	M1	$\{x: x < a\} \cup \{x: a < x < 3\}$
	Expresses answer in set notation. Or $\{x: 0 < x < 3, x \neq a\}$	2.5	R1	
	Subtotal		2	

	Question Total		6	
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