

Q	Marking instructions	AO	Marks	Typical solution
7(a)	Obtains $a = 3$	1.1b	B1	$3(x^2 + x) - 8$ $3\left(x + \frac{1}{2}\right)^2 - \frac{35}{4}$
	Obtains $b = \frac{1}{2}$	1.1b	B1	
	Obtains $c = -\frac{35}{4}$	1.1b	B1	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
7(b)(i)	States $-\frac{35}{4}$ Or FT their value of c from (a)	2.2a	B1F	$-\frac{35}{4}$
	Subtotal		1	

Q	Marking instructions	AO	Marks	Typical solution
7(b)(ii)	Equates $\sin \theta$ to their $-b$, OE provided $-1 \leq b \leq 1$ PI by correct answer	3.1a	M1	$\sin \theta = -\frac{1}{2}$ $\theta = -30$ $\theta = 180 - (-30)$ $\theta = 210^\circ$
	Obtains 210 ACF	1.1b	A1	
	Subtotal		2	

	Question 7 Total		6	
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