

Q	Marking instructions	AO	Marks	Typical solution
9(a)	Substitutes at least one small angle identity correctly into $\cos 4\theta + 2 \sin 3\theta - \tan 2\theta$	1.1a	M1	$\cos 4\theta + 2 \sin 3\theta - \tan 2\theta \approx 1 - \frac{(4\theta)^2}{2} + 2(3\theta) - (2\theta)$ $= 1 + 4\theta - 8\theta^2$
	Obtains a correct expression in terms of θ ACF	1.1b	A1	
	Completes argument to obtain $1 + 4\theta - 8\theta^2$	2.1	R1	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
9(b)	Substitutes $\theta = 0.07$ into their $1 + 4\theta - 8\theta^2$	3.1a	M1	$1 + 4 \times 0.07 - 8 \times 0.07^2 = 1.2408$ ≈ 1.241
	Obtains AWRT 1.241 CSO	1.1b	A1	
	Subtotal		2	

	Question 9 Total		5	
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