

Question	Scheme	Marks	AOs
5	$\frac{\cos 9\theta - 1}{\theta \sin \theta} = \frac{1 - \frac{(9\theta)^2}{2} - 1}{\dots} \quad \text{or} \quad \frac{\cos 9\theta - 1}{\theta \sin \theta} = \frac{\dots}{\theta \times \theta}$	M1	1.1b
	$\frac{\cos 9\theta - 1}{\theta \sin \theta} = \frac{1 - \frac{(9\theta)^2}{2} - 1}{\theta \times \theta} = \dots$	dM1	2.1
	$= -\frac{81}{2} \text{ oe}$	A1	1.1b
		(3)	
(3 marks)			
Notes			
M1: Applies one correct approximation in either the numerator or the denominator dM1: Applies both correct approximations in the numerator and the denominator and attempts to simplify A1: Correct value			