

Question		Answer	Marks	AOs	Guidance		
8		$3 \cos \theta + 8 \frac{\sin \theta}{\cos \theta} [= 0]$	<b>M1*</b>	<b>1.2</b>			
		$3 \cos^2 \theta + 8 \sin \theta = 0$	<b>M1dep*</b>	<b>1.1</b>			multiplication of all terms of their equation by $\cos \theta$
		$3(1 - \sin^2 \theta) + 8 \sin \theta = 0$	<b>M1</b>	<b>2.4</b>			dependent on award of previous <b>M1</b>
		$3 \sin^2 \theta - 8 \sin \theta - 3 = 0$	<b>A1</b>	<b>1.1</b>			
		$\sin \theta = -\frac{1}{3}$ www	<b>A1</b>	<b>1.1a</b>			from factorising or quadratic formula
	$\theta = 341, 199$	<b>A1</b>	<b>2.4</b>	No wrong values; accept 199.47, 340.53	Condone sign errors and number errors for the three M marks		
			<b>[6]</b>			May see $\sin \theta = 3$	