Question		Answer	Marks	AO	Guidance
4	(a)	$\frac{4\sin\theta}{\cos\theta} - 3\cos\theta\,[=0]$	M1	3.1a	Uses trig identity for $\tan\theta$
		$4\sin\theta - 3\cos^2\theta = 0$			
		$4\sin\theta - 3(1-\sin^2\theta)[=0]$	M1	3.1a	Uses trig identity for $\cos^2\theta$
		$3\sin^2\theta + 4\sin\theta - 3 = 0$ **AG**	A1	2.1	Convincing argument. Do not award if $= 0$ missing on lines indicated oe
			[3]		
	(b)	$3\sin^2\theta + 4\sin\theta - 3 = 0$			
		$\sin\theta = \frac{-2\pm\sqrt{13}}{3}[= -1.8685\ldots \text{ or } 0.5351\ldots]$	M1	1.1	Attempt to solve the quadratic in $\sin\theta$ soi (maybe BC)
			A1	1.1	At least one correct value of θ
		$\theta = 32.4°, 147.6°$	A1	2.3	Both correct roots and no others $-180° < \theta < 180°$ Ignore any values outside the range [No roots from $\sin\theta = \frac{-2-\sqrt{13}}{3}$] Condone awrt $32°, 148°$
			[3]		**SC** Allow **M1SC1** for radians used giving 0.5647…, 2.576…