Question	Answer	Marks	Guidance
(a)	Attempt to express left hand side of the equation in terms of $\sin\theta$ and $\cos\theta$	**M1**	with at least two of the terms correct and no missing θ s Condone use of x instead of θ
	Obtain $7\sin^2\theta + 4\cos^2\theta - 13\sin\theta [= 0]$	**A1**	SOI, OE
	Obtain $3\sin^2\theta - 13\sin\theta + 4 = 0$	**A1**	Allow if missing θ s are recovered **SC** Allow full marks for $3\sin\theta - 13 + \frac{4}{\sin\theta} = 0$ Must be in terms of θ for final A mark
		3	

Question	Answer	Marks	Guidance
(b)	Attempt solution of 3-term quadratic equation for $\sin\theta$	**M1**	
	Obtain $\sin\theta = \frac{1}{3}$ and hence 19.5	**A1**	or greater accuracy
	Obtain second value 160.5	**A1**	or greater accuracy; and no other values within the given range FT on 180^o – *their* 19.5^o
		3	