Question	Answer	Marks	Guidance
	Use correct double-angle formula to obtain an equation in $\cos\theta$	**M1**	e.g. $3\left(2\cos^2\theta-1\right)=3\cos\theta+2$
	Obtain $6\cos^2\theta-3\cos\theta-5=0$, or 3-term equivalent	**A1**	M1 A0 is scored if they use any correct formula for $\cos 2\theta$ and make a subsequent error.
	Solve a 3-term quadratic in $\cos\theta$ for θ	**M1**	As far as $\theta=\cos^{-1}\left(\frac{3-\sqrt{129}}{12}\right)$ if quadratic correct.
	Obtain a correct answer, e.g. $134.1°$	**A1**	Accept greater accuracy e.g. 134.1456, 225.8544.
	Obtain a second answer, e.g. $225.9°$ and no other in $[0°, 360°]$	**A1 FT**	Treat answers in radians (2.34 and 3.94) as a misread. Ignore answers outside $[0°, 360°]$. The FT is for $360°$ minus the first answer.
			Special Ruling: If they have an **incorrect** quadratic that leads legitimately to 4 solutions for θ, allow FT for $360°$ minus an answer in $(0°,180°)$. More than 4 solutions is maximum M1 A0 M1 A0 A0. If *their* equation should have 4 solutions and the candidate only gives 3 solutions then M1 A0 M1 A0 A0. Mis-read leading to a quadratic with 4 solutions could score maximum M1 A0 M1 A1 A1 or M1 A0 M1 A1 A0 if extra/missing solution.
		5	