Question			Answer	Marks	AO	Guidance
4			**DR** $6\left(1-\sin^2 x\right)+\sin x=5$	**M1**	**3.1a**	Uses the identity $\sin^2 x+\cos^2 x=1$
			$6\sin^2 x-\sin x-1=0$	**M1**	**1.1a**	Collects terms and attempts to solve their quadratic
			$\sin x=\frac{1}{2},-\frac{1}{3}$	**A1**	**1.1b**	soi. May be BC. FT their quadratic
			When $\sin x=\frac{1}{2}$, $x=30°,150°$	**A1**	**1.1b**	At least one correct root in the interval for either value of $\sin x$ FT their valid value for $\sin x$
			When $\sin x=-\frac{1}{3}$, $x=-19.5°,-160.5°$	**A1**	**1.1b**	All roots seen from complete working – no extras in the range FT their other valid value for $\sin x$ Ignore additional answers outside the range.
				[5]		