6			LHS $\equiv \sqrt{2}(\cos 2\theta \cos 45^\circ - \sin 2\theta \sin 45^\circ)$	**M1**	**3.1a**	correct use of cos(A+ B) formula
			$\equiv \sqrt{2} \times \frac{1}{\sqrt{2}}(\cos 2\theta - \sin 2\theta)$ or $(\cos 2\theta - \sin 2\theta)$	**B1**	**1.1**	$\cos 45^\circ$ or $\sin 45^\circ = \frac{1}{\sqrt{2}}$ seen or implied
			$\equiv \cos^2\theta - 2\sin\theta\cos\theta - \sin^2\theta$	**A1**	**2.2a**	correctly obtained – use of double angle formulae clear
			Alternative method			
			RHS $\equiv \cos 2\theta - \sin 2\theta$	**M1**		
			$\equiv \sqrt{2}(\frac{1}{\sqrt{2}}\cos 2\theta - \frac{1}{\sqrt{2}}\sin 2\theta)$			or $R\cos\alpha = 1$, $R\sin\alpha = 1$, $R^2 = 2$, $\tan\alpha = 1$, $\alpha = 45^\circ$
			$\equiv \sqrt{2}(\cos 2\theta \cos 45^\circ - \sin 2\theta \sin 45^\circ)$	**M1**		
			$\equiv \sqrt{2}\cos(2\theta + 45^\circ)$	**A1**		
				[3]		