Question			Answer	Marks	AO	Guidance
8			$[(x-3)^2 - 9 + y^2 = 16$ or $(x-3)^2 + y^2 = 25]$			May not be seen
			Centre (3, 0)	**B1**	**2.1**	soi
			radius 5	**B1**	**1.1**	soi
			Translation of $\begin{pmatrix} k \\ k \end{pmatrix}$ soi	**M1**	**1.1**	e.g. $(3+\alpha, \alpha)$
			$k = 2\times5\cos 45^0$	**M1**	**1.1**	For use of the distance between centres C and D being $2r$ (look for attempts at Pythagoras in an isosceles triangle with hypotenuse 10) e.g. $2\times\frac{5}{\sqrt{2}}$ or $5\sqrt{2}$ or $\frac{10}{\sqrt{2}}$ oe or 7.07 or 7.1
			Centre of D is $(3 + 5\sqrt{2}, 5\sqrt{2})$	**A1**	**2.2a**	(10.1,7.1)
				[5]		