

Question		Answer	Marks	AO	Guidance
4	(a)	$r\theta = 15$	B1	1.1	Accept any method for solving the equations simultaneously
		$\frac{1}{2}r^2\theta = 45$	B1	1.1	
		$\frac{1}{2}r(15) = 45$	M1	3.1a	
		$r = 6$ and $\theta = 2.5$	A1	1.1	
			[4]		
4	(b)	$\frac{1}{2}(6)^2 \sin\left(\frac{5}{2}\right)$	B1FT	1.1	FT their r and θ
		$45 - \text{their } \frac{1}{2}(6)^2 \sin\left(\frac{5}{2}\right)$	M1	1.1	
		$34.2 \text{ (cm}^2\text{)}$	A1FT	1.1	FT their r and θ
			[3]		