

Q	Marking instructions	AO	Mark	Typical solution
5	Uses appropriate method to find radius eg complete the square by using $3^2$ or $4^2$ on LHS or RHS PI by correct radius 17 or 289	3.1a	M1	$(x-3)^2 - 9 + (y-4)^2 - 16 = 264$ $(x-3)^2 + (y-4)^2 = 289$ $\frac{1}{2} \times 17^2 \times 0.9 = 130.05$ $\frac{1}{2} \times 17^2 \sin 0.9 = 113.19$ Area of segment = 16.9
	Deduces correct radius or radius squared or fully correct completed square form seen	2.2a	A1	
	Uses appropriate method to find area of sector using radius 17 or their stated value of radius or value of radius clearly shown on diagram	1.1a	M1	
	Uses appropriate method to find area of triangle using radius 17 or their stated radius	1.1a	M1	
	Obtains area correct to at least 3 significant figures AWRT 16.9	1.1b	A1	
	<b>Total</b>		<b>5</b>	