Question	Answer	Marks	Partial Marks
10(b)(i)	$a+9d=15(a+d)$	**B1**	
	$\frac{6}{2}\{2a+5d\}=87$	**B1**	
	Solves *their* equations for d e.g. $2\left(-\frac{3}{7}d\right)+5d=29$	**M1**	
	$d=7$	**A1**	
10(b)(ii)	$a=-3$ soi	**B1**	
	$6990=their(-3)+(n-1)(their7)$	**M1**	
	$n=1000$	**A1**	
11(a)	[perimeter =] $\frac{4}{3}\pi r$ soi	**B2**	**B1** for angle $ACB=\frac{2}{3}\pi$
	$\left(their\frac{4}{3}\pi r\right)=4\pi$ oe	**M1**	
	$r=3$	**A1**	
11(b)	$\frac{1}{2}\times their3^2\times their\frac{2\pi}{3}$ oe	**M1**	
	$\frac{1}{2}\times their3^2\times\sin their\frac{2\pi}{3}$ oe	**M1**	
	For subtracting and doubling: $their3^2\times their\frac{2\pi}{3}-$ $their3^2\times\sin their\frac{2\pi}{3}$	**M1**	
	$6\pi-\frac{9}{2}\sqrt{3}$ or exact equivalent	**A1**	