8	(a)	In a geometric progression, all the terms are positive, the second term is 24 and the fourth term is $13\frac{1}{2}$ . Find
		(i) the first term, [3]
		(ii) the sum to infinity of the progression. [2]
	<b>(b)</b>	A circle is divided into $n$ sectors in such a way that the angles of the sectors are in arithmetic progression. The smallest two angles are $3^{\circ}$ and $5^{\circ}$ . Find the value of $n$ . [4]