9	(a)	The first term of a geometric progression in which all the terms are positive is 50. The is 32. Find the sum to infinity of the progression.	third term [3]
	(b)	The first three terms of an arithmetic progression are $2 \sin x$, $3 \cos x$ and $(\sin x - \cos x)$ respectively, where x is an acute angle.	$+ 2\cos x$
		(i) Show that $\tan x = \frac{4}{3}$.	[3]
		(ii) Find the sum of the first twenty terms of the progression.	[3]