Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 7	Γhe <i>n</i> th	term	of a	geometric	series	is	$3e^{(1-2n)}$

Find the sum to infinity of this series.

Give your answer in the form $\frac{ae}{e^b-1}$ where a and b are integers to be found.	(5)

(Total for Question 1 is 5 marks)