DO NOT WRITE IN THIS AREA

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Answer all ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1	$f(x) = 2x^2 + (k+8)x + k$	
	Show that for all values of k , the equation $f(x) = 0$ has distinct real roots.	(4)
	(Total for Question 1 is 4 ma	rks)

