(a)	By sketching a suitable pair of graphs, show that the equation $\ln x = 3x - x^2$ has one real root	ot. [2]
(b)	Verify by calculation that the root lies between 2 and 2.8.	[2]
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(c)	Use the iterative formula $x_{n+1} = \sqrt{3x_n - \ln x_n}$ to determine the root correct to 2 decimal places.	aces.
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