Numerical Solutions and Equations – 2021 A2 Nov P2

(a)	Show that the <i>x</i> -coordinate of <i>M</i> satisfies the equation $x = \frac{1}{3} \ln 5 - \frac{1}{3} \ln (1 + 2x)$.	[5]
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(b)	Use an iterative formula, based on the equation in part (a), to find the <i>x</i> -coordinate of M correct to 3 significant figures. Use an initial value of 0.35 and give the result of each iteration to 5 significant figures. [3]
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