

$$f(x) = 25x^2e^{2x} - 16, \quad x \in \mathbb{R}$$

- (a) Using calculus, find the exact coordinates of the turning points on the curve with equation $y = f(x)$. (5)

- (b) Show that the equation $f(x) = 0$ can be written as $x = \pm \frac{4}{5} e^{-x}$ (1)

The equation $f(x) = 0$ has a root α , where $\alpha = 0.5$ to 1 decimal place.

- (c) Starting with $x_0 = 0.5$, use the iteration formula

$$x_{n+1} = \frac{4}{5} e^{-x_n}$$

to calculate the values of x_1 , x_2 and x_3 , giving your answers to 3 decimal places. (3)

- (d) Give an accurate estimate for α to 2 decimal places, and justify your answer. (2)

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Padhraic Smyth

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