

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

(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  $\alpha$ , 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  $\alpha$  to 2 decimal places, and justify your answer. (2)

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