Question 6   (25 marks)
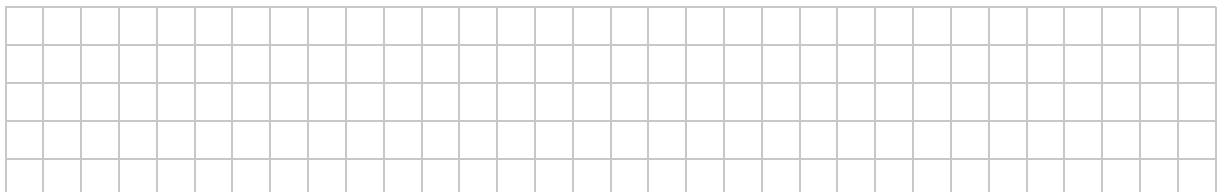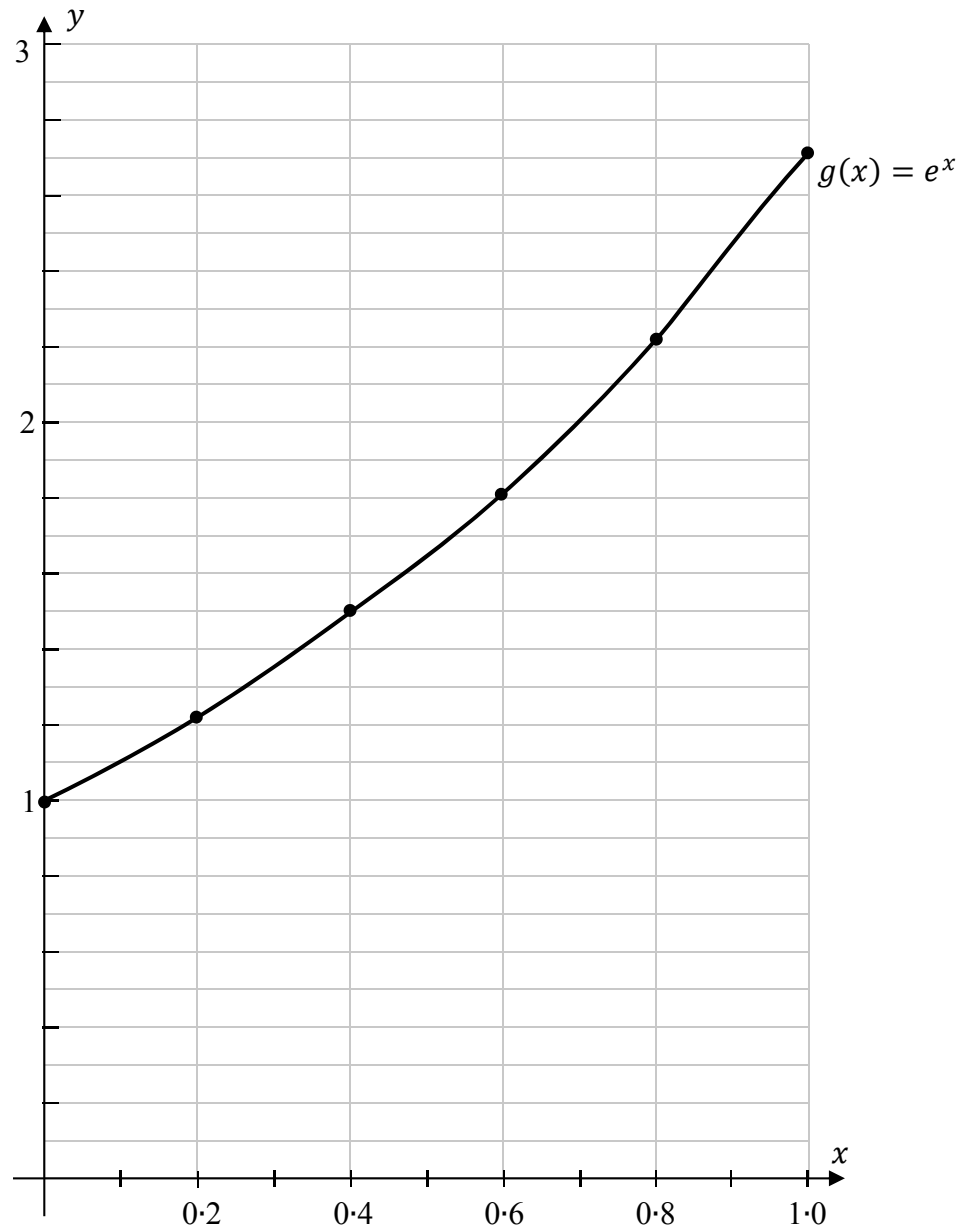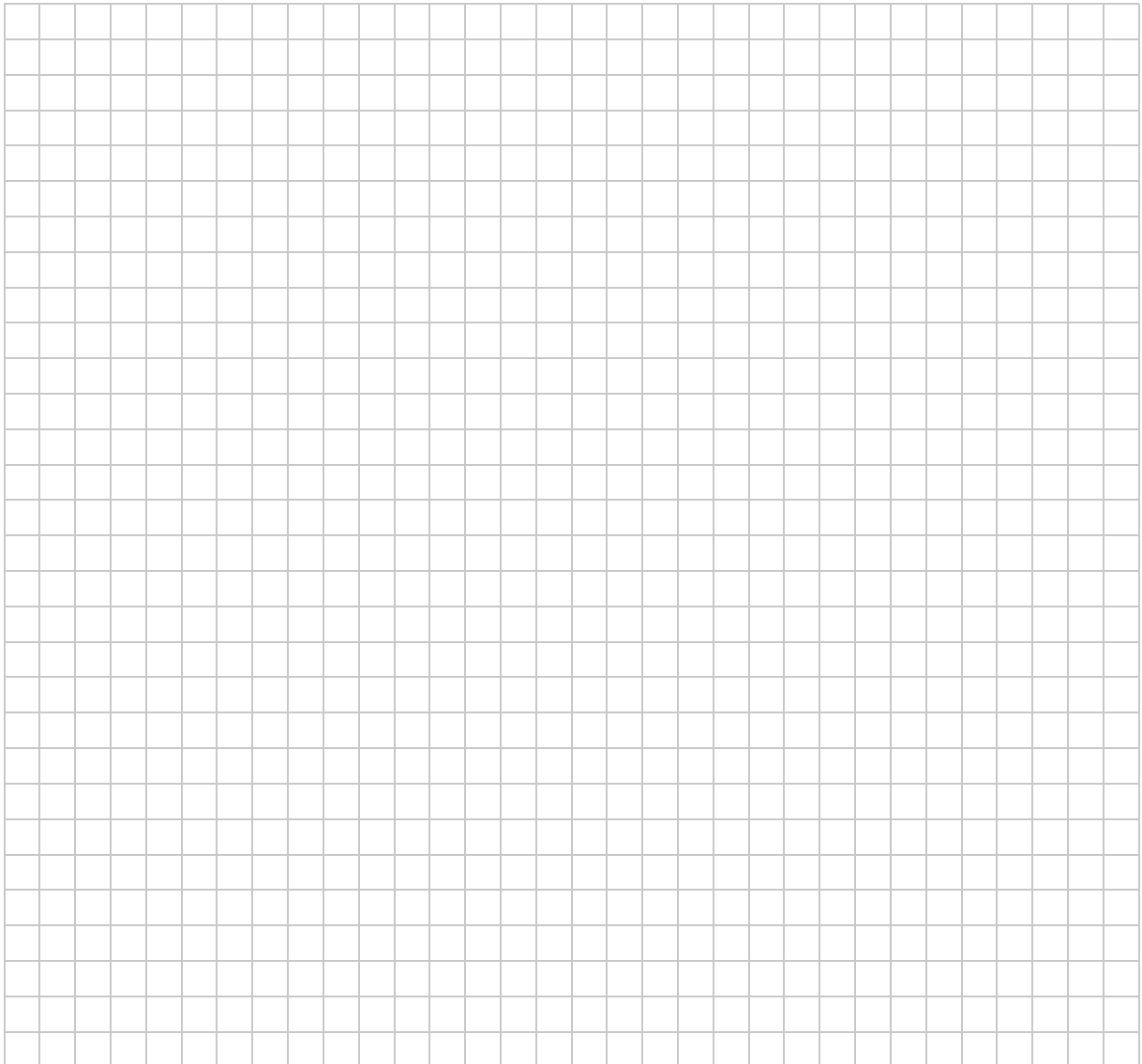
The graph of the function $g(x) = e^x$, $x \in \mathbb{R}$, $0 \le x \le 1$, is shown on the diagram below.

(a) On the same diagram, draw the graph of $h(x) = e^{-x}$, $x \in \mathbb{R}$, in the domain $0 \le x \le 1$.

(b) Find the area enclosed by $g(x) = e^x$, $h(x) = e^{-x}$, and the line $x = 0 \cdot 75$.
Give your answer correct to 4 decimal places.

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